

U.S. EPA Region 5 Targeted Brownfield Assessment Grant funded Project

**COMPREHENSIVE SITE INVESTIGATION REPORT
FOR THE
KIMBALL AVENUE PARK
1807-15 NORTH KIMBALL AVENUE
CHICAGO, COOK COUNTY, ILLINOIS**

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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LIST OF ACRONYMS

%	Percent	NFR	No Further Remediation
°	Degree	ORP	Oxidation-reduction potential
ALMC	American Laundry Machinery Company	PAH	Polycyclic aromatic hydrocarbons
amsl	Above mean sea level	PCB	Polychlorinated biphenyl
BEI	Brecheisen Engineering, Inc.	PID	Photoionization detector
bgs	Below ground surface	PIN	Parcel identification number
BTEX	benzene, toluene, ethylbenzene, and xylene	PVC	Polyvinyl chloride
C	Celsius	QAPP	Quality Assurance Project Plan
cm	Centimeters	RAP	Remedial Action Plan
COC	Constituent of concern	RBCA	Risk Based Corrective Action
Compco	Compco Corporation	RCRA	Resource Conservation and Recovery Act
CPD	Chicago Park District	REC	Recognized Environmental Condition
CSIR	Comprehensive Site Investigation Report	ROR	Remediation Objectives Report
CWE	Clean World Engineering, Ltd.	SAP	Sampling and Analysis Plan
DO	Dissolved oxygen	sec	Second
DRO	Diesel range organics	Site	Kimball Avenue Park
EDR	Environmental Data Resources, Inc.	SQG	Small quantity generator
ELC	Elsmere Lumber Company	SRO	Soil remediation objective
ESA	Environmental Site Assessment	SRP	Site Remediation Program
f _{oc}	Fraction organic carbon	SSL	Soil Screening Level
ft	Feet	START	Superfund Technical Assessment and Response Team
GRO	gasoline range organics	SVOC	Semivolatile organic compound
IAC	Illinois Administrative Code		
IEPA	Illinois Environmental Protection Agency		
mg/kg	Milligram per kilogram		
mg/L	Milligram per liter		
mL/min	Milliliter per minute		

LIST OF ACRONYMS (CONC'D)

TACO	Tiered Approach to Corrective Action Objectives	USCS	Unified Soil Classification System
TBA	Targeted Brownfields Assessment	U.S. EPA	United States Environmental Protection Agency
TCL	Target Compound List	USGS	United States Geological Survey
TCLP	Toxicity Characteristic Leaching Procedure	UST	Underground storage tank
TPH	Total petroleum hydrocarbon	VOC	Volatile organic compound
		WESTON	Weston Solutions, Inc.

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EXECUTIVE SUMMARY

This report is a Comprehensive Site Investigation Report (CSIR) for the Kimball Avenue Park (Site), located at 1807-1815 North Kimball Avenue, in Chicago, Cook County, Illinois. This report was prepared under a Targeted Brownfields Assessments (TBA) Grant for the United States Environmental Protection Agency in response to a request from the Chicago Park District (CPD) to conduct a Phase II Environmental Site Assessment (ESA) to determine the nature and extent of environmental impacts in order to acquire the Site for development as a City of Chicago greenspace park that will be connected to the Bloomingdale Trail, a greenspace corridor.

The primary objective of the project is to obtain Comprehensive No Further Remediation (NFR) letter from the Illinois Environmental Protection Agency (IEPA) Site Remediation Program (SRP) in accordance with 35 Illinois Administrative Code (IAC) Part 740. The NFR letter will address all of the constituents in 35 IAC Part 740, Appendix A. The purpose of this CSIR is to provide the information necessary for a comprehensive site investigation.

The Site is trapezoidal shaped and consists of three parcels (parcel identification numbers [PIN] 13-35-409-037/039/042) totaling approximately 0.41 acres. The Site is currently vacant and has mostly concrete surface cover with some areas containing grass and dirt. The Site is bordered to the north and east by residential properties, to the west by North Kimball Avenue and residential properties, and to the south by a vacant parcel of land, elevated approximately 15 to 16 feet (ft) above street level, and an abandoned railroad easement.

Sanborn maps obtained as part of the Phase I ESA Report, prepared by Clean World Engineering, Ltd. (CWE) in 2010 indicate the following operations/purposes at the Site:

- 1896: Site occupied by a single-family dwelling on northern portion of property and used for lumber storage for Elsmere Lumber Company (ELC; south adjoining property) on eastern and southern portion of property
- 1921: Site appears vacant with no structures

- 1950: Site occupied by a warehouse believed to be an extension of the American Laundry Machinery Company (ALMC; east adjoining property). The warehouse included a structure for painting operations and/or paint storage.
- 1975, 1988, 1991, and 1994: Site occupied by a warehouse believed to be an extension of the former ALMC, the Compco Corporation (Compco), a fluorescent light bulb and fixture manufacturer.
- 2002 and 2004: Site appears vacant with no structures

Two heating oil underground storage tanks (USTs) (23,000-gallon and 25,000-gallon) were installed on the east adjoining property (PINs 13-35-409-045/046) in November 1952; however, there is no record of their removal (CWE, 2010). The warehouse (100 by 75-ft) at the Site was demolished in July 2001.

A Phase II ESA was conducted by Brecheisen Engineering, Inc. (BEI) in August 2010 with findings presented in a Final Phase II ESA Report dated September 24, 2010. The Weston Solutions, Inc. (WESTON[®]) 2012 Site investigation activities were conducted between May 29 through 31, 2012. The 2012 sample design was developed to address data gaps from the 2010 Phase II ESA and to delineate known contamination at the Site. BEI collected a total of 26 soil samples from 8 soil boring locations in August 2010 and WESTON collected a total of 19 investigative soil samples from 10 soil borings location in May 2012. BEI completed three soil borings as 1-inch diameter polyvinyl chloride temporary monitoring wells and collected one round of groundwater samples in August 2010. WESTON completed three soil borings as 2-inch diameter polyvinyl chloride monitoring wells, collocated with the BEI wells, and collected one round of groundwater samples in June 2012.

SUMMARY OF TIER 1 EVALUATION

Soil sampling analytical results indicated the presence of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and metals at concentrations above the analytical laboratory method detection limits. Cyanide, polychlorinated biphenyls (PCBs), and herbicides were not detected above the analytical laboratory method detection limits. Constituents present in the soil samples at concentrations above at Tier 1 soil remediation objectives (SROs) include the following:

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- VOCs – 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride
- SVOCs – benzo(a)anthracene, benzo(a)pyrene, benzo(b)-fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene
- Metals – total antimony, total arsenic, total and toxicity characteristic leaching procedure (TCLP) lead, total mercury, and total selenium

VOC concentrations exceeded Tier 1 SROs for the soil component of the groundwater migration exposure pathway for Class II groundwater at the deepest sampling interval at locations B-3/KP-SB09 (6 to 9 ft below ground surface [bgs]), B-4 (9 to 12 ft bgs), and KP-SB08 (15 to 17 ft bgs) located along the northern boundary of the Site. VOC concentrations exceeded Tier 1 SROs for the residential ingestion and inhalation pathways and soil component of the groundwater migration exposure pathway for Class II groundwater at the deepest sampling interval at locations B-2/KP-SB01 (18 to 20 ft bgs), B-5/KP-SB02 (18 to 20 ft bgs), KP-SB04 (14 to 16 ft bgs), KP-SB05 (14 to 16 ft bgs), KP-SB06 (14 to 16 ft bgs).

Metal concentrations exceeding Tier I SROs were limited to the uppermost 6 ft of the Site. The highest concentrations of antimony, arsenic, lead, mercury, and selenium were identified from the 3 to 6 foot depth interval along the eastern Site boundary (B-4, B-5 and B-6).

The horizontal extent of constituents of concern (COCs) at concentrations exceeding the SROs has been established by the property boundaries in all directions. The vertical extent of contamination is not defined at the following sampling locations for the listed COCs:

- B-2/KP-SB01 – trichloroethene at 18 to 20 ft bgs
- B-3/KP-SB09 – trichloroethene at 6 to 9 ft bgs
- B-4 – cis-1,2-dichloroethene and vinyl chloride at 9 to 12 ft bgs
- B-5/KP-SB02 – cis-1,2-dichloroethene, trichloroethene, and vinyl chloride at 18 to 20 ft bgs
- B-8/KP-SB10 – benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene at 12 to 14 ft bgs
- KP-SB04 – trichloroethene and vinyl chloride at 14 to 16 ft bgs
- KP-SB05 – trichloroethene and vinyl chloride at 14 to 16 ft bgs

- KP-SB06 – cis-1,2-Dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride at 14 to 16 ft bgs
- KP-SB08 – cis-1,2-dichloroethene and vinyl chloride at 15 to 17 ft bgs

Analytical results from groundwater samples indicated the presence of chloroform, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride, and iron at concentrations exceeding the Tier 1 Class II groundwater remediation objectives for the groundwater component of the groundwater ingestion route. The extent of the groundwater plume has not been defined.

Based on observations during the field activities and evaluation of the analytical results, sources of chemical contamination at the Site may be attributed to: 1) former industrial use of the eastern adjacent property for manufacturing purposes as ELC, ALMC, and Compco; 2) long term historical Site uses that included painting, automobile warehousing, lumber storage and warehousing, and storage operations; 3) potential unregistered USTs on-site or adjacent to the Site; and 4) the presence of undocumented urban fill brought onto the Site.

Based on the findings of this investigation, WESTON recommends:

- Address potential vapor migration to nearby residential properties
- Define the vertical extent of soil contamination
- Define the vertical and horizontal extent of the groundwater plume
- Evaluate remedial technologies
- Develop Remediation Objectives Report
- Develop Remedial Action Plan

1. INTRODUCTION

The Weston Solutions, Inc. (WESTON[®]) Superfund Technical Assessment and Response Team (START) has prepared this Comprehensive Site Investigation Report (CSIR) for the Kimball Avenue Park (Site), located at 1807-1815 North Kimball Avenue, in Chicago, Cook County, Illinois, as shown in **Figure 1-1**. This report was prepared under a Targeted Brownfields Assessments (TBA) Grant for the United States Environmental Protection Agency (U.S. EPA) in response to a request from the Chicago Park District (CPD) to conduct a TBA Phase II Environmental Site Assessment (ESA) to determine the nature and extent of environmental impacts in order to acquire the Site for development as a City of Chicago greenspace park that will be connected to the Bloomingdale Trail, a greenspace corridor.

The 2012 TBA Phase II ESA scope of work was developed based on the findings and recommendations of the 2010 Final Phase I ESA prepared by Clean World Engineering, Ltd. (CWE) and the 2010 Final Phase II ESA prepared by Brecheisen Engineering, Inc. (BEI). The CWE (2010) Phase I and BEI (2010) Phase II ESAs are presented in **Appendix A** (electronic deliverable only).

The 2012 TBA Phase II ESA was performed in accordance with the following approved plans:

- *Sampling and Analysis Plan (SAP)* dated May 7, 2012
- *Quality Assurance Project Plan (QAPP) Addendum* dated May 7, 2012
- *Targeted Brownfields Assessment Grant Program Quality Assurance Project Plan (Generic QAPP)* dated October 2009

The objective of this CSIR is to provide documentation of the results of the investigations. The next step would be to prepare a Remedial Objectives Report (ROR) and Remedial Action Plan (RAP) and receive a Comprehensive No Further Remediation (NFR) letter from the Illinois Environmental Protection Agency (IEPA) Site Remediation Program (SRP) in accordance with 35 Illinois Administrative Code (IAC) Part 740. Specifically, this report contains the following four sections:

- Introduction – This section provides the site characterization and includes a description of the site history, general site geology/hydrogeology, migration pathways and exposure routes, and current and future use of the property.
- Field Activities – This section includes a description of the project sampling objectives, summarizes the types, quantities, and locations of samples that were collected, and provides a narrative description of field activities, site-specific geology and hydrogeology, and analytical results.
- Endangerment Assessment – This section includes a comparison of the soil analytical results to the most stringent applicable Tier 1 Soil Remediation Objectives (SROs) for Residential Properties presented in Appendix B, Table A of 35 IAC Part 742, Tiered Approach to Corrective Action Objectives (TACO), as well as the pH-specific SROs for the soil component of the groundwater ingestion exposure route provided in 35 IAC Part 742, Appendix B, Table C. Groundwater analytical results are compared to Class II Groundwater Remediation Objectives presented in Appendix B, Table E of TACO.
- Conclusions and Recommendations – This section presents a summary of the site characterization and presents the conclusions and recommendations based on the sample analytical results.

1.1 PROJECT OBJECTIVES

The primary objective of the project is to obtain a Comprehensive NFR letter for the Site located at 1807-1815 North Kimball Avenue, in Chicago, Cook County, Illinois. A Comprehensive NFR letter will make approximately 0.41 acres available for redevelopment. The purpose of this CSIR is to provide the information necessary for a comprehensive site investigation.

1.2 SITE DESCRIPTION

The Site is trapezoidal shaped and consists of three parcels (parcel identification numbers [PIN] 13-35-409-037/039/042) totaling approximately 0.41 acres (**Figure 1-2**). The Site is currently vacant and has mostly concrete surface cover with some areas containing grass and dirt. The Site is bordered to the north and east by residential properties, to the west by North Kimball Avenue and residential properties, and to the south by a vacant parcel of land, elevated approximately 15 to 16 feet (ft) above street level, and an abandoned railroad easement.

Based on a review of historical Sanborn maps by CWE (2010), the Site was utilized as a lumberyard for the Elsmere Lumber Company (ELC) in 1896. The lumberyard extended contiguously onto the eastern adjacent property. No structures existed at the Site in 1896.

By 1921, the Site was vacant and a concrete retaining wall existed along the southern Site boundary. Railroad spurs from the Chicago, Milwaukee, and St. Paul railroad were present south of the Site. The eastern adjacent property had been redeveloped into the American Laundry Machinery Company (ALMC). Historical operations at ALMC included woodworking, testing, painting, crating, shipping, lumber storage, and casting storage. In addition, machine shop operations were present.

By 1950, the ALMC had expanded westward onto the Site. A two-story structure was present along the southern portion of the Site, used for “Automobiles” and a “Stock Room” on the first floor, and a “Warehouse” on the second floor, with a two-story “Shipping” building and elevator. The northwest portion of the Site was also occupied by a small one-story “Automobile” garage, while the northern portion of the Site was largely vacant. The eastern adjacent site occupied by the ALMC had expanded since 1921 and a five-story “Factory” building built in 1928 was present. Machine shop, woodworking, testing, painting, crating, and shipping operations were still ongoing at the Site according to the 1950 Sanborn map, and “woodworking” activities were being conducted at the eastern adjacent site.

By 1975, the Compco Corporation (Compco) was present in place of ALMC in the vicinity of the Site and the eastern adjacent site. Compco is described on the 1975 Sanborn Map as “Manufacturers of Fluorescent Fixtures.” Buildings along the southern portion of the Site were used for a “Stock Room,” a “Warehouse,” and “Shipping.” The 1975 Sanborn map no longer denotes “Automobiles” in the southern portion of the Site. In addition, the former “Automobile” garage on the northwest portion of the Site is no longer present. However, a small building had been constructed in 1956 at the northwest portion of the Site building, and is described as “Paint.”

By 1988, the Site remained an extension of the eastern adjacent Compco fluorescent fixture manufacturing facility. A building remained along the southern portion of the Site and is still described as “Warehouse,” “Stock Room,” “Shipping,” and “Paint” on the 1988 Sanborn map. However, another addition to the Site building had been constructed on the central portion of the Site. The use of this portion of the Site building was not discernible on the 1988 Sanborn Map. The Site and the eastern adjacent Compco remained in this configuration through the 1994.

By 2002, both the subject Site and the interconnected eastern adjacent property were completely vacant, and remained in this configuration through the 2004. Prior to the Site’s vacancy, two small structures were demolished by the City of Chicago, one in 2001, and one in 2002/2003. The Site has been vacant since 2003 and the City of Chicago acquired the Site through foreclosure in 2005. The CWE (2010) Final Phase I ESA located in **Appendix A** (electronic deliverable only) provides additional historical information.

1.2.1 Regional Topography

United States Geological Survey (USGS) topographic maps reviewed by CWE (2010) indicate the Site elevation is between 600 and 605 ft above mean sea level (amsl). The Site is relatively flat and the general topographic gradient in the area is to the east. The elevated embankment for the railroad parcel south of the Site consists of fill material at a higher elevation than the Site and the natural topography.

1.2.2 Regional Geology

According to information gathered from the Environmental Data Resources, Inc. (EDR) report obtained as part of the Phase I ESA conducted by CWE (2010), the regional geology is characterized as Paleozoic Era, Silurian System, Middle Silurian Series, stratified sequence. The major soil component name is Urbanland and the soil surface texture is variable. Urbanland soils are known to have been disturbed due to extensive urban development over time, consist of fill materials such as crushed rock or other materials resistant to weathering, are poorly drained, and

have silty and clayey subsoil. Much of the soils in the Chicago area, away from Lake Michigan, are comprised of dense gray clays with remnants of glacial deposits.

1.2.3 Regional Hydrogeology

During the Phase II ESA, conducted by BEI (2010), the depth to groundwater measured from 2.51 to 13.85-ft below ground surface (bgs) and the flow of groundwater was determined to be towards the northwest. However, numerous factors will influence flow through this zone, such as surface topography, underground structures, and seasonal fluctuations. Additionally, water-bearing zones within the surficial materials are likely to be perched and discontinuous. See **Subsection 2.3.2** for Site hydrogeological characteristics observed during the WESTON 2012 groundwater investigation.

According to information gathered from the EDR report obtained as part of the Phase I ESA conducted by CWE (2010), there are six water wells within 1-mile of the Site. However, the City of Chicago has a moratorium on drinking water supply wells in the City.

1.2.4 Surface Water

The closest surface water body is a small pond in Humboldt Park approximately 0.75 miles southeast of the Site. The north branch of the Chicago River is approximately 2.8 miles east of the Site. The North Branch of the Chicago River flows south into the Chicago Sanitary and Ship Canal, away from Lake Michigan. Lake Michigan is approximately 4.5 miles east of the Site. Lake Michigan is the sole source of the City of Chicago's drinking water.

1.3 RECOGNIZED ENVIRONMENTAL CONCERNS

Based on the Final Phase I ESA Report, prepared by CWE (2010), and the Final Phase II ESA Report, prepared by BEI (2010), the following recognized environmental conditions (RECs) were identified at the Site:

- Long term historical Site uses that included painting, automobile warehousing, lumber storage and warehousing, and storage operations assumed to be associated with the former eastern adjoining ALMC and Compco.

- The potential for unregistered underground storage tanks (USTs)
- The potential for urban fill being brought onto the Site from unknown sources
- Long-term historical industrial use of the eastern adjacent property for manufacturing purposes as ELC, ALMC, and Compco
- Records for two heating oil USTs (23,000-gallon and 25,000-gallon) installed on the eastern adjacent property in 1952 were identified, with no documentation on the disposition
- Listings of the eastern adjacent property a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) of hazardous waste and a RCRA non-generator

1.4 POTENTIAL SOURCES, MIGRATION PATHWAYS, AND EXPOSURE ROUTES

Based on historical Site use and RECs, the primary sources of contamination are likely derived from paint, lumber, and automobile warehouse operations at the Site, urban fill brought onto the Site, potential petroleum releases from two heating oil USTs (23,000-gallon and 25,000-gallon) installed on the eastern adjacent Site in 1952, and potential historical releases from the adjacent property formerly occupied by ELC, ALMC, and Compco. Leaching of contaminants from surface soils to subsurface soils, leaching of soil contaminants to shallow groundwater underlying the Site, and migration of contaminants in groundwater off-site each represent potential migration pathways at the Site. Potential exposure pathways of contaminant migration include ingestion of contaminants in soil, inhalation of airborne soil contaminants, and inhalation of constituents volatilized from soil and groundwater.

1.5 LEGAL DESCRIPTION

A copy of the legal description for the Site is presented in **Appendix B**.

1.6 SOURCES AND REFERENCES

Brecheisen Engineering, Inc. (BEI), 2010. *Final Phase II Environmental Site Assessment: Vacant Land, 1807-15 N. Kimball Ave., Chicago, Illinois 60647.*

- Bouwer, H. and R.C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, *Water Resources Research*, vol. 12, no. 3, pp. 423-428.
- Bouwer, H., 1989. The Bouwer and Rice slug test--an update, *Ground Water*, vol. 27, no. 3, pp. 304-309.
- Clean World Engineering, Ltd. (CWE), 2010. *Final Phase I Environmental Site Assessment (ESA) Report, TOR #09 – DOE-0022, 1807 – 1815 North Kimball Avenue, Chicago Illinois, 60647*. Prepared for: City of Chicago Department of Environment.
- Fetter, C. W., 1994. *Applied Hydrogeology*, Fourth Edition.
- Illinois Environmental Protection Agency. Title 35 of the IAC, Subtitle G: Waste Disposal. Chapter I: Pollution Control Board. Part 240: Site Remediation Program.
- Illinois Environmental Protection Agency. Title 35 of the IAC, Subtitle G: Waste Disposal. Chapter I: Pollution Control Board. Subchapter f: Risk Based Cleanup Objectives. Part 742: Tiered Approach to Corrective Action Objectives.
- Illinois State Geological Survey. 1971. Circular 460 Summary of the Geology in the Chicago Area. Springfield, Illinois.
- United States Geological Survey. 1997. Chicago Loop 7.5 Minute Quadrangle Map. Washington DC.

2. FIELD ACTIVITIES

This section presents a description of the site characterization field activities conducted at the Site. WESTON's site characterization activities were conducted in accordance with the approved site-specific QAPP Addendum and SAP. Field activities included soil boring and soil sample collection, monitoring well installation and development, groundwater sampling, surveying, and hydraulic conductivity testing.

2.1 SITE-SPECIFIC SAMPLING AND ANALYSIS PLAN

The complete site-specific QAPP Addendum and SAP were prepared for, and approved by, the U.S. EPA, with input from the CPD. The site-specific QAPP Addendum and SAP contain a description of the project sampling objectives; summarize the types, quantities, and locations of

samples collected; and describe the decontamination, sample packaging, and shipment procedures. The laboratory procedures and analytical requirements for the sampling were provided in the Generic QAPP and site-specific QAPP Addendum. Standard operating procedures for drilling, sampling, and well installation were presented in the Generic QAPP.

The sampling program included the collection and analysis of soil and groundwater samples. The overall objective of the field activities was to determine the nature and extent of constituents listed in the Target Compound List (TCL). The TCL is provided in Appendix A of 35 IAC, Part 740. The field investigation objectives were achieved through advancement of soil borings, installation of monitoring wells, collection of soil and groundwater samples, Site surveying, and hydraulic conductivity testing. The following sections document the previous and present soil and groundwater investigations.

2.2 SOIL INVESTIGATION

2.2.1 BEI 2010 Sampling Event

A Phase II ESA was conducted by BEI in August 2010 with findings presented in a Final Phase II ESA Report dated September 24, 2010. The Phase II ESA is presented in **Appendix A** (electronic deliverable only) and summarized in the following subsections. Analytical results derived from BEI's Phase II ESA were obtained by WESTON and were used in the endangerment assessment (**Section 3**).

On August 4, 2010, BEI oversaw the advancement of soil borings B-1 through B-8 at the Site in areas most likely to have been impacted based on historical operations (BEI, 2010; see **Appendix A** of electronic deliverable). **Figure 2-1** presents the 2010 soil sampling locations. One soil boring was advanced to a terminal depth of 24-ft to characterize the Site's geology and to determine the location of potential water bearing units. Two soil borings were advanced to a terminal depth of 20-ft. Four soil borings were advanced to a terminal depth of 16-ft. One soil boring was drilled to a terminal depth of 6-ft due to refusal. Subsurface penetration was achieved using a truck-mounted Geoprobe using standard dual-tube sampling techniques.

Twenty-six soil samples were collected continuously at 3-foot intervals and classified by BEI using the Unified Soil Classification System (USCS).

At least two soil samples from each soil boring were analyzed for various combinations of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), pesticides, herbicides and RCRA metals. One shallow soil sample was collected from the surficial soils (0 to 3 ft below ground surface [bgs], except when there was no recovery) and at least one deeper soil sample was collected from the soil horizon potentially impacted based on field observations and photoionization detector (PID) field screenings. Where no potential impacts were observed, the soil interval above the soil-groundwater interface was collected for analysis.

Twenty-one soil samples were analyzed for VOCs, 10 soil samples were analyzed for SVOCs, eight soil samples were analyzed for PAHs, nine soil samples were analyzed for PCBs and pesticides, four soil samples were analyzed for TCL inorganics and pH, 11 soil samples were analyzed for RCRA metals and pH, four additional soil samples were analyzed for various individual metals, one soil sample was analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX), two soil samples were analyzed for herbicides, and two soil samples were analyzed for fraction organic carbon (f_{oc}). Also, two soil samples were analyzed for toxicity characteristic leaching procedure (TCLP) VOCs, one soil sample was analyzed for TCLP RCRA metals, and one soil sample was analyzed for TCLP chromium. The soil samples with the highest detected concentrations of trichloroethylene, vinyl chloride, arsenic, chromium, lead, and mercury were designated for TCLP analyses in order to determine whether the soil at the Site exhibited hazardous toxicity characteristics. **Table 2-1** presents a summary of soil samples collected by BEI in 2010 and analyses performed on each sample.

2.2.2 WESTON 2012 Phase II ESA

WESTON was retained by the U.S. EPA to perform a Phase II ESA under a TBA grant to delineate known contamination at the Site, address data gaps from the 2010 Phase II ESA, and to delineate known contamination at the Site. Soil boring and sampling was conducted on May 29,

2012. WESTON and subcontractor Cabeno Environmental Field Services, LLC of Joliet, Illinois used a direct push 6600 Geoprobe® track-mounted rig to advance 10 soil borings, KP-SB01 through KP-SB10, to a maximum depth of 20 ft bgs. **Figure 2-1** presents the soil boring locations. Soil was collected at 5-foot intervals using macro core samplers. The soil from each 5-foot core was inspected and observations were recorded in a soil boring log. A qualified WESTON geologist described each soil sampling interval using the USCS. Soil descriptions were recorded onto a WESTON boring log to create a detailed record of the lithology and potential contaminant characteristics of each boring. Descriptions were provided of any fill materials, odors, discoloration, or staining suggesting the presence of contamination. In accordance with the SAP, each 2-foot depth interval was field screened for VOCs by placing a section of the 2-foot interval into a plastic, Ziploc-style bag, allowing contents to volatilize, then screening for VOCs using a MultiRAE PID. Field screening results were also recorded onto the boring logs. **Appendix C** provides the soil boring logs.

Based on historical property uses and analytical results from the ESAs listed above, the soil constituents of concern (COCs) for the Site were VOC, SVOCs, and metals. A total of 19 investigative soil samples were collected from the 10 soil boring locations. A summary of the sampling including the sampling identification, sampling horizon, and analytical parameters is presented in **Table 2-1** and summarized below:

- One subsurface soil sample was collected from each soil boring at KP-SB01 and KP-SB02 at a 2-ft depth interval between 6 and 12 ft bgs previously identified as being highly impacted with chlorinated VOCs. These samples were analyzed for total petroleum hydrocarbons (TPH) as diesel range organics (DRO) and TPH as gasoline range organics (GRO) to determine soil attenuation capacity.
- One subsurface soil sample was collected from each soil boring at KP-SB01 and KP-SB02 at a 2-foot depth interval below 12 ft bgs that was assumed to be unimpacted based on visual observations and PID headspace screenings. These samples were analyzed for TCL VOCs to delineate the vertical extent of VOC contamination.
- One subsurface soil sample was collected from KP-SB03 at a depth of 9 to 12 ft bgs and analyzed for TCL SVOCs and f_{oc} . Soil boring KP-SB03 was advanced in the same location as former BEI soil boring B-7. Soil at this location and depth was identified as unimpacted by VOCs during the 2010 investigation and therefore f_{oc}

data was collected to facilitate development of site-specific Tier 2 remediation objectives and modeling following Soil Screening Level (SSL) and Risk-Based Corrective Action (RBCA) methods.

- Two subsurface soil samples were collected from each soil boring at KP-SB04 through KP-SB08 at a 2-foot depth deemed the most impacted, based on visual observations and PID headspace screenings, and the bottom 2 ft of the unsaturated zone. These samples were analyzed for TCL VOCs to delineate the horizontal extent of VOC contamination. KP-SB04 through KP-SB08 were approximately 20 ft from borings previously identified as containing VOCs above TACO Tier 1 SROs for the inhalation pathway. One subsurface sample collected at KP-SB08 was also analyzed for TPH DRO and TPH GRO as a result of hydrocarbon staining observed in the field.
- One surface soil sample was collected from the soil boring at KP-SB09 and analyzed for VOCs, SVOCs, and f_{oc} . This location was a former sampling location lacking surface soil data.
- One subsurface soil sample collected from the soil boring at KP-SB09 and analyzed for f_{oc} for modeling purposes. Soil boring KP-SB09 was advanced in the same location as former BEI soil boring B-3. Soil at this location and depth was identified as unimpacted by organic contamination during the 2010 investigation.
- Two subsurface soil samples were collected from the soil boring at KP-SB10 and analyzed for PAHs to delineate the vertical extent of PAH contamination. Surface soil at this location was previously identified as impacted with PAHs.

Soil samples were submitted under chain of custody to a WESTON-procured laboratory, Pace Analytical Services, in Indianapolis, Indiana. Field duplicates were collected for quality assurance/quality control purposes in accordance with the SAP.

In accordance with the approved the site-specific health and safety plan, all soil sampling activities were conducted in Level D personal protective equipment. Fresh sampling gloves were donned before sampling activities began at each new location and for each sample to avoid cross contamination. Equipment that may cross-contaminate samples and was not disposable (e.g. Geoprobe cutting shoe) was decontaminated between each location using analconox wash and potable water rinse. All water collected during decontamination activities was collected and containerized on site. All soil cuttings generated during soil boring activities were containerized in 55-gallon drums. Composite soil cuttings sample KP-SC01-052912 was submitted to Pace

Analytical Services in Indianapolis, Indiana and analyzed for TCLP VOCs, TCLP SVOCs, TCLP metals, flashpoint, and pH. At the time of this report, the containerized waste has been staged in a secure location at the Site and is awaiting transportation off-site as a hazardous waste.

2.2.3 Soil Sampling Analytical Results

Analytical results from soil samples indicate the presence of VOCs, SVOCs, pesticides, and metals at concentrations above the method detection limits. PCBs, cyanide, and herbicides were not detected in soil.

Tables 2-2 and **2-3** present the soil sampling analytical results for organics and inorganics, respectively. These tables solely present the results of detected constituents. **Appendix D** includes complete data tables for all of the analyses performed. Copies of the laboratory data sheets are provided in **Appendix E** (electronic deliverable only). Soil sampling analytical results were reviewed and validated in accordance with applicable U.S. EPA procedures. The data validation reports are included in **Appendix E** (electronic deliverable only). A detailed evaluation of the soil sampling analytical results is provided in **Section 3**.

2.2.4 Site Lithology

According to information collected during soil boring activities conducted by BEI (2010), surficial materials at the Site consist of concrete underlain by fill materials. The fill materials generally consisted of loose granular material including crushed concrete, gravel, and sand. Beneath the fill materials, native soils consisted predominantly of silty clay. The silty clay exhibited brown and gray color variations and generally held a soft to firm consistency to approximately 12 ft bgs, below which soils typically consisted of soft to very soft gray silty clay.

According to information collected during soil boring activities conducted by WESTON in June 2012, the subsurface stratigraphy encountered during field activities indicates the presence of a silty sand fill layer to a maximum depth of 3 ft bgs. This fill layer is primarily composed of fine to medium sand with silt and some small gravel and is nearly uniform across the site. Immediately underlying this fill layer is medium plasticity clay glacial till. Maximum boring

depths were not sufficient to characterize the thickness of the clay glacial till unit. As a result, the base of the clay glacial till was not determined during this investigation. Discontinuous seams of sand, silt, and gravel were noted throughout the clay glacial till unit. These units ranged from 1 ft to 3 ft in thickness.

A generalized Site geology is depicted on two cross-sections based on WESTON's geologic investigation. **Figure 2-2** presents the locations of the geologic cross-sections. **Figures 2-3, Figure 2-4, and Figure 2-5** present cross-sections A-A', B-B,' and C-C,' respectively. Boring logs are presented in **Appendix C**.

2.3 GROUNDWATER INVESTIGATION

2.3.1 BEI 2010 Groundwater Investigation

On August 4, 2010, BEI completed soil borings B-2, B-5 and B-7 as temporary monitoring wells TMW-1, TMW-2 and TMW-3, respectively. The monitoring well locations were intended to characterize the groundwater in areas most likely to have been impacted by historical operation at the Site. Monitoring wells were constructed of 1-inch diameter Schedule 40 polyvinyl chloride (PVC) materials and included a 10-foot screen with 0.010-inch slotted openings. The screened interval was constructed from approximately 6 to 16 ft bgs at TMW-1 and TMW-3 and approximately 8-18 ft bgs at TMW-2. Annular space surrounding the well screen was filled with filter sand (quartz no. 5) and then sealed with bentonite pellets. The temporary monitoring wells were completed approximately 6-inches above grade with a surficial bentonite seal. The temporary monitoring well construction logs are presented in **Appendix A** (electronic deliverable only). Monitoring wells were developed by purging groundwater from each well using a dedicated disposable bailer. Groundwater was purged until three well volumes were removed or until each well was dry.

BEI collected groundwater samples at the Site from August 10 to August 18, 2010 using dedicated bailers to extract groundwater from the monitoring wells. Groundwater sampling was conducted over several days due to insufficient groundwater within the wells. Groundwater was

transferred directly from the dedicated bailers into the laboratory provided sample containers. The groundwater sample collected from TMW-1 was analyzed for VOCs, PAHs, and TCL inorganics. The groundwater sample collected from TMW-2 was submitted for laboratory analyses for VOCs, SVOCs, PCBs, pesticides, and TCL metals. The groundwater sample collected from TMW-3 was analyzed for VOCs, PAHs, PCBs, pesticides, herbicides, and RCRA metals. Due to insufficient groundwater sample volume in TMW-1, the groundwater sampling activities were concluded without collecting a groundwater sample for the PCB and pesticides analysis.

2.3.2 WESTON 2012 Groundwater Investigation

The groundwater investigation consisted of the installation, development, groundwater sampling, and hydraulic conductivity testing of three monitoring wells, KP-MW01 through KP-MW03. **Figure 2-6** presents the monitoring well locations.

2.3.2.1 Monitoring Well Design, Installation, and Development

On May 29 and May 30 2012, WESTON subcontractor Cabeno Environmental Field Services, LLC performed monitoring well installation and development. Monitoring wells were constructed of 2-inch diameter flush-threaded polyvinyl chloride riser pipe and 0.010-inch slotted screen. A 10-ft screen was used for well construction and was located in such a manner as to straddle the inferred water table. A silica sand pack was placed in the borehole annulus around the well screen to a height of 2 ft above the top of the screen. The remainder of the borehole annulus was filled with bentonite pellet/chips seal placed directly above the sand pack. **Appendix C** provides the monitoring well construction diagrams.

A flush-mounted outer protective cover was set in a concrete pad (approximately 2 ft in diameter), which was sloped to divert rainwater away from the protective cover. The monitoring wells were developed approximately 24 hours after installation. Well development was conducted using a surge block and a submersible pump. During the development process the well was alternatively surged with the surge block and then purged of groundwater. Purged

groundwater generated during monitoring well development, as well as sampling activities was containerized in 55-gallon drums. At the time of this report, the waste has been staged in a secure location at the Site and is awaiting transportation off-site as a hazardous waste.

2.3.2.2 Groundwater Sampling and Analysis

On June 1, 2012 WESTON collected groundwater samples from KP-MW01, KP-MW02, and KP-MW03. Monitoring wells were sampled at least 24 hours after well development. In order to obtain samples that are representative of aquifer conditions, groundwater samples were obtained using a low-flow purging and sampling technique. Each well was purged at a rate of approximately 100 milliliter per minute (mL/min) using a bladder pump until field parameters indicated groundwater conditions to be stable. Field measurements (specific conductance, pH, oxidation-reduction potential [ORP], temperature, dissolved oxygen [DO], and turbidity) were obtained at five-minute intervals. Groundwater sampling commenced once stabilization was achieved for three consecutive readings, pH (± 0.1 standard units), specific conductance (± 3 percent [%]), ORP (± 10 millivolts), DO (± 0.3 milligrams per liter [mg/L]), temperature (± 0.5 degrees Celsius [$^{\circ}\text{C}$], turbidity ($\pm 10\%$). **Table 2-4** presents the field parameters collected during monitoring well purging.

Groundwater samples were analyzed for VOCs, SVOCs, pesticides, PCBs, metals, and cyanide as listed in 35 IAC Part 740, Appendix A: Site Remediation Program. Groundwater samples were submitted under chain of custody to a WESTON-procured laboratory, Pace Analytical Services in Indianapolis, Indiana. Field duplicates were collected for quality assurance/quality control purposes in accordance with the SAP. **Table 2-1** presents the sampling and analysis summary.

2.3.3 Groundwater Sampling Analytical Results

Analytical results from groundwater samples indicate the presence of VOCs, SVOCs, pesticides, and metals at concentrations above the method detection limits. PCBs and cyanide were not detected in groundwater. **Table 2-5** presents the groundwater sampling analytical results. This

table solely presents the results of detected constituents. **Appendix D** includes complete data tables for all of the groundwater analyses performed. Copies of the laboratory data sheets are provided in **Appendix E** (electronic deliverable only). Groundwater sampling analytical results were reviewed and validated in accordance with applicable U.S. EPA procedures. The data validation reports are included in **Appendix E** (electronic deliverable only). A detailed evaluation of the groundwater sampling analytical results is provided in **Section 3**.

2.3.4 Site Hydrogeology

Monitoring wells KP-MW01, KP-MW02, and KP-MW03 were installed adjacent to temporary wells TMW-1, TMW-2 and TMW-3, respectively. Monitoring well KP-MW01 is screened from 8 to 18 ft bgs across clay. Monitoring well KP-MW02 is screened from 9 to 19 ft bgs across a sand layer found within the overall clay. Monitoring well KP-MW03 is screened from 8 to 18 ft bgs across a silty sand layer within the overall clay.

Groundwater elevation measurements were collected on three separate dates. Elevations were measured on June 1, 2012 prior to monitoring well sampling, June 21, 2012, and July 12, 2012. Upon completion of monitoring well installation, Compass Surveying, LTD. of Aurora, Illinois, an Illinois Licensed Surveyor, surveyed the newly installed monitoring well locations for vertical control. Each monitoring well was surveyed at the ground surface and at a marked reference point on the inner well casing. The accuracy of all vertical field survey measurements was +/- 0.01 ft. Each of the soil borings and monitoring well locations was surveyed by WESTON using a Trimble Pro XR global positioning system for lateral control. The accuracy of the lateral field survey measurements was approximately +/- 3 ft.

Table 2-6 presents depth to groundwater measurements, top of casing elevations, and resulting groundwater elevations for each of the three monitoring wells. **Figure 2-7** presents the groundwater elevations and potentiometric surface map created based on data collected at KP-MW01, KP-MW02 and KP-MW03. It should be noted that KP-MW01 does not intersect any of the discontinuous silty sand to sandy silt lenses that were noted in various boring across the Site. KP-MW01 is set in clay and response to groundwater elevation changes are not pronounced and

differ by several feet compared to the other Site monitoring wells. Local flow across the Site appears to be to the north. The hydraulic gradient across the Site, based on the potentiometric surface contours depicted on **Figure 2-7**, was calculated to be approximately 0.07 ft/ft.

Hydraulic conductivity of the water-bearing zone encountered at the Site was estimated by aquifer testing (slug tests) of the three monitoring wells. Both rising and falling head tests were conducted by inserting and subsequently removing an inert slug from each well. The data were evaluated using the Bouwer and Rice (1976, 1989) solution method. Analysis was completed using AQTESOLV, version 4.50, software. Due to the highly variable data recorded at KP-MW01 for both the rising and falling head tests, this data was found to be unusable and the determination of hydraulic conductivity at this location was not conducted. **Table 2-7** presents the hydraulic conductivity testing results. **Appendix F** presents the data and associated plots for hydraulic conductivity tests. Results show that hydraulic conductivity in the water-bearing zone ranged from 2.8×10^{-4} to 8.4×10^{-7} centimeters per second (cm/sec) with a geometric mean of 1.3×10^{-5} cm/sec.

2.3.5 Justification for Groundwater Classification

The water-yielding zone has a hydraulic conductivity less than 1×10^{-4} cm/sec based on a geometric mean. Thus, pursuant to the requirements of 35 IAC Section 620.210, groundwater underlying the Site is not considered Class I (Potable Resource Groundwater) and is therefore considered to be Class II (General Resource Groundwater) for purposes of establishing a Tier 1 SRO for the soil component of the groundwater ingestion exposure route.

3. ENDANGERMENT ASSESSMENT

This section presents a detailed description of the nature and extent of contamination as identified in the soil and groundwater investigation. The data set included in this CSIR comprises soil and groundwater samples collected in 2010 and 2012. As discussed in **Subsection 2.3.1**, BEI collected a total of 26 investigative soil samples from eight soil boring locations, and conducted one round of groundwater sampling from three Site temporary wells. As discussed in

Subsection 2.3.2, WESTON collected a total of 19 investigative soil samples from 10 soil boring locations, and conducted one round of groundwater sampling from three Site monitoring wells. **Table 2-1** summarizes the samples and analyses included in the endangerment assessment.

3.1 TIER 1 EVALUATION PROCEDURES

3.1.1 Soil

Since the anticipated future development for the Site is a greenspace park that will be connected to the Bloomingdale Trail, Tier 1 residential SROs were used to evaluate the soil sampling analytical results. Organic constituents detected in soil were compared to the most stringent SRO from the ingestion, inhalation, and soil component of the groundwater ingestion exposure route for Class II groundwater as provided in 35 IAC Part 742, Appendix B, Table A to evaluate compliance with the SROs for residential properties. The Chicago background concentrations provided in 35 IAC Part 742 Appendix A, Table H were used as a basis of comparison for PAHs where less stringent than the Tier 1 SROs in accordance with 35 IAC Part 742.415(b). The total metal concentrations were compared against the most stringent SRO from the ingestion and inhalation exposure routes provided in 35 IAC Part 742, Appendix B, Table A as well as the pH-specific SROs for the soil component of the groundwater ingestion exposure route provided in 35 IAC Part 742, Appendix B, Table D. TCLP metal concentrations were compared to the SROs soil for the soil component of the groundwater ingestion exposure route for Class II groundwater provided in 35 IAC Part 742, Appendix B, Table A. A metal was only considered to be above the Tier 1 SROs if the total and TCLP concentrations exceeded SROs. In all cases, the Tier 1 SROs were considered to be met if the analyte was below the typical background concentration provided in 35 IAC Part 742 Appendix A, Table G, in accordance with 35 IAC Part 742.415(b).

Because construction activities are anticipated to take place at the Site, organic and inorganic constituents detected in soil were also compared to the most stringent construction worker SRO from the ingestion and inhalation exposure route as provided in 35 IAC Part 742, Appendix B, Table B.

3.1.2 Groundwater

Based on the Class II groundwater classification, groundwater analytical results were compared to the Tier 1 groundwater remediation objectives for Class II groundwater provided in 35 IAC Part 742, Appendix B, Table E.

3.2 SOIL DATA EVALUATION

Soil sampling analytical results indicated the presence of VOCs, SVOCs, pesticides, and metals at concentrations above the analytical laboratory method detection limits. Cyanide, PCBs, herbicides were not detected above the analytical laboratory method detection limits. The soil sampling analytical results are provided in **Table 2-2** and **Table 2-3** for the organic and inorganic constituents, respectively. These tables solely present the results of detected constituents and include shading to identify concentrations that exceeded SROs.

Constituents present in the soil samples at concentrations above at Tier 1 SROs include the following:

- VOCs – 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride
- SVOCs – benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene
- Metals – total antimony, total arsenic, total and TCLP lead, total mercury, and total selenium

The following sections present the data evaluation by exposure pathway.

3.2.1 Residential Ingestion Exposure Pathway

Four VOCs (cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride), five SVOCs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene), and three metals (antimony, arsenic, and lead) were detected at concentrations exceeding Tier I SROs for the residential ingestion exposure pathway.

Table 2-2 and **Figure 3-1** present the cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride concentrations exceeding their respective SROs for the residential ingestion pathway. **Table 2-2** and **Figure 3-2** present the benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene concentrations exceeding their respective SROs for the residential ingestion pathway. **Table 2-3** and **Figure 3-3** present the antimony, arsenic, and lead concentrations exceeding their respective SROs for the residential ingestion pathway.

3.2.2 Residential Inhalation Exposure Pathway

VOCs chloroform, tetrachloroethene, trichloroethene, and vinyl chloride were detected at concentrations exceeding Tier I SROs for the residential inhalation exposure pathway. **Table 2-2** and **Figure 3-1** present the VOC concentrations exceeding their respective SROs for the residential inhalation pathway.

3.2.3 Construction Worker Ingestion Exposure Pathway

Trichloroethene and lead were detected at concentrations exceeding the Tier I SRO for the construction work ingestion exposure pathway. **Table 2-2** and **Figure 3-1** present the trichloroethene concentrations exceeding the construction ingestion exposure SRO of 1,200 milligrams per kilogram (mg/kg). **Table 2-3** and **Figure 3-3** present the lead concentrations exceeding the construction ingestion exposure SRO of 700 mg/kg.

3.2.4 Construction Worker Inhalation Exposure Pathway

1,1-Dichloroethene, chloroform, trichloroethene, vinyl chloride, and mercury were detected at concentrations exceeding the Tier I SROs for construction worker inhalation exposure pathway. **Table 2-2** and **Figure 3-1** present the 1,1-dichloroethene, chloroform, trichloroethene, and vinyl chloride concentrations exceeding their respective SROs for the construction worker inhalation pathway. **Table 2-3** and **Figure 3-3** present the mercury concentrations exceeding the construction inhalation exposure SRO of 0.1 mg/kg.

3.2.5 Soil Component of the Groundwater Migration Exposure Pathway

Eight VOCs (1,1-dichloroethene, benzene, chloroform, cis-1,2,-dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride), one SVOC (benzo[a]anthracene) and four metals (total antimony, total lead, total selenium, and TCLP lead) were detected at concentrations exceeding Tier I SROs for the soil component of the groundwater migration exposure pathway for Class II groundwater.

Table 2-2 and **Figure 3-1** present the VOC concentrations that exceeded their respective SROs for the soil component of the groundwater migration exposure pathway for Class II groundwater. Benzo(a)anthracene was detected at a concentration exceeding the soil component of the groundwater migration exposure pathway for Class II groundwater of 8 mg/kg at sampling location B-8/KP-SB10 (0 to 3 ft bgs) at a concentration of 9.27 mg/kg. **Table 2-2** and **Figure 3-2** present the one benzo(a)anthracene concentration that exceeded the SRO for the soil component of the groundwater migration exposure pathway for Class II groundwater.

Table 2-3 and **Figure 3-3** present the one TCLP lead concentration that exceeded the SRO for the soil component of the groundwater migration exposure pathway for Class II groundwater and the total antimony, lead, and selenium concentration that exceeded their respective pH-specific SROs.

3.2.6 Soil Saturation

Trichloroethene was detected at concentrations exceeding the soil saturation limit of 1,300 mg/kg provided in 35 IAC Part 742, Appendix A, Table A. Trichloroethene concentrations exceeded the soil saturation limit at sampling location KP-SB04 (10 to 12 ft bgs) at a concentration of 3,510 mg/kg; KP-SB05 (11 to 13 ft bgs) at a concentration of 3,590 mg/kg; and KP-SB06 (10 to 12 ft bgs) at a concentration of 4,230 mg/kg.

3.3 GROUNDWATER DATA EVALUATION

Analytical results from groundwater samples collected from the Site indicated the presence of VOCs, SVOCs, pesticides, and metals at concentrations above the method detection limits. Analytical results did not indicate the presence of PCBs, herbicides, or cyanide in groundwater underlying the Site. The groundwater analytical results for detected constituents are provided in **Table 2-5**. **Table 2-5** also includes shading to identify concentrations that exceed groundwater remediation objectives. **Appendix D** includes complete data tables for all of the analyses performed.

Constituents present in the groundwater samples at concentrations above the Tier 1 Class II groundwater remediation objectives for the groundwater component of the groundwater ingestion route include the following:

- VOCs – chloroform, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride
- Metals – iron

The concentrations of chlorinated VOCs at TMW-2/KP-MW02 was one to two orders of magnitude less during the 2012 sampling event than during the 2010 sampling event. Similar temporal decreases in VOC concentrations were observed at location TMW-1/ KP-MW01, located in the north region of the Site. BEI collected groundwater samples in 2010 using dedicated bailers to extract groundwater from the monitoring wells. The sampling methodology may have introduced sediment into the groundwater samples thereby elevating the concentrations of contaminants as a result of turbid samples. **Figure 3-4** presents constituents exceeding the Tier 1 Class II groundwater remediation objectives for the groundwater component of the groundwater ingestion route.

3.4 NATURE AND EXTENT OF CONTAMINATION

3.4.1 Soil

Soil sampling conducted by BEI in 2010 and WESTON in 2012 detected the presence of VOCs, SVOCs, pesticides, and metals in the Site's surficial (0 to 3 ft bgs) and subsurface soil (3 to 20 ft

bgs) at concentrations exceeding residential and construction worker Tier 1 SROs for ingestion, inhalation, and/or soil component of the groundwater ingestion route (Class II Groundwater) exposure pathways. Cyanide, PCBs, pesticides, and herbicides were not detected at concentrations exceeding the most stringent residential or construction worker Tier 1 SROs in any soil sample. The nature of contamination at the Site consists of the following COCs at the Site detected at concentrations exceeding at least one Tier 1 SRO:

- VOCs – 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride
- SVOCs – benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene
- Metals – total antimony, total arsenic, total and TCLP lead, total mercury, and total selenium

3.4.1.1 Volatile Organic Compounds

The highest concentrations of the VOCs were detected in the east and southeast regions of the Site where VOCs were detected at multiple subsurface intervals from 3 to 20 ft bgs. The extent of VOC impact was horizontally delineated by property boundaries to the north, east, and southeast, and by soil boring locations B-1 and B-7/KP-SB03 to the west and southwest where VOC concentrations did not exceed Tier 1 SROs. The extent if VOC impact was vertically delineated by concentrations below Tier I SROs for all COCs except cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride at the following locations:

- cis-1,2-Dichloroethene – B-4, B-5/KP-SB02, KP-SB06, and KP-SB08
- Tetrachloroethene – KP-SB06
- Trichloroethene – B-2/KP-SB01, B-3/KP-SB09, B-5/KP-SB02, KP-SB04, KP-SB05, and KP-SB06
- Vinyl chloride – B-4, B-5/KP-SB02, KP-SB04, KP-SB05, KP-SB06, and KP-SB08

VOC concentrations exceeded Tier 1 SROs for the soil component of the groundwater migration exposure pathway for Class II groundwater at the deepest sampling interval at locations

B-3/KP-SB09 (6 to 9 ft bgs), B-4 (9 to 12 ft bgs), and KP-SB08 (15 to 17 ft bgs) located along the northern boundary of the Site. VOC concentrations exceeded Tier 1 SROs for the residential ingestion and inhalation pathways and soil component of the groundwater migration exposure pathway for Class II groundwater at the deepest sampling interval at locations B-2/KP-SB01 (18 to 20 ft bgs), B-5/KP-SB02 (18 to 20 ft bgs), KP-SB04 (14 to 16 ft bgs), KP-SB05 (14 to 16 ft bgs), KP-SB06 (14 to 16 ft bgs).

3.4.1.2 Semivolatile Organic Compounds

The highest concentrations of the SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected in the southwest region of the Site at location B-8/KP-SB10. This is the location of a former shipping building that was overlain by a ramp constructed of undocumented urban fill. SVOC impacts were limited to the Site's uppermost 6 ft of soil based on the results of the soil samples analyzed at all locations except B-8/KP-SB10 where SVOC concentrations exceeded Tier 1 SRO at 12 to 14 ft bgs. The horizontal extent of SVOC impact includes the west, south, and east perimeters of the property and is delineated by sampling locations B-2/KP-SB01 and B-3/KP-SB09 to the north and the property boundaries to the west, south, and east. The extent of SVOC impact was vertically delineated by concentrations below Tier I SROs except at location B-8/KP-SB10 where concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected above the SRO for the residential ingestion pathway at 12 to 14 ft bgs.

3.4.1.3 Metals

Metal concentrations exceeding Tier I SROs were vertically delineated to the uppermost 6 ft of the Site. The highest concentrations of antimony, arsenic, lead, mercury, and selenium were identified from the 3 to 6 foot depth interval along the eastern Site boundary (B-4, B-5 and B-6). The horizontal extent of metals impact includes the east and northern portion of the Site delineated by sampling locations B-2/KP-SB01 and B-8/KP-SB03 to the southwest.

3.4.1.4 Extent of Soil Contamination Summary

As discussed in the previous subsections, the lateral extent of VOCs, SVOCs, and metals at concentrations above Tier 1 SROs includes the entire Site. The vertical extent of contamination is not defined at the following sampling locations for the listed COCs:

- B-2/KP-SB01 – trichloroethene at 18 to 20 ft bgs
- B-3/KP-SB09 – trichloroethene at 6 to 9 ft bgs
- B-4 – cis-1,2-dichloroethene and vinyl chloride at 9 to 12 ft bgs
- B-5/KP-SB02 – cis-1,2-dichloroethene, trichloroethene, and vinyl chloride at 18 to 20 ft bgs
- B-8/KP-SB10 – benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene at 12 to 14 ft bgs
- KP-SB04 – trichloroethene and vinyl chloride at 14 to 16 ft bgs
- KP-SB05 – trichloroethene and vinyl chloride at 14 to 16 ft bgs
- KP-SB06 – cis-1,2-Dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride at 14 to 16 ft bgs
- KP-SB08 – cis-1,2-dichloroethene and vinyl chloride at 15 to 17 ft bgs

3.4.2 Groundwater

Groundwater sampling conducted by BEI in 2010 and WESTON in 2012 detected the presence of VOCs - chloroform, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride and iron at concentrations exceeding the Tier 1 Class II groundwater remediation objectives for the groundwater component of the groundwater ingestion route.

The highest concentrations of the trichloroethene, cis-1,2-dichloroethene, and vinyl chloride were detected at location TMW-2/KP-MW02, located along the eastern boundary of the Site where the highest concentrations of VOCs in soil are present. There were no detections of COCs exceeding Tier 1 Class II GROs for the groundwater component of the groundwater ingestion route at location upgradient monitoring well TMW-3/KP-MW03. The horizontal or vertical extent of the chlorinated VOC plume has not been defined.

4. CONCLUSIONS AND RECOMMENDATIONS

The 2010 and 2012 soil sampling analytical results indicated the presence the following COCs in soil at concentrations above Tier 1 SROs:

- VOCs – 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, chloroform, cis-1,2-dichloroethene, tetrachloroethene, trans-1,2-dichloroethene, trichloroethene, and vinyl chloride
- SVOCs – benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene
- Metals – total antimony, total arsenic, total and TCLP lead, total mercury, and total selenium

The horizontal extent of COCs at concentrations exceeding the SROs in soils at the Site has been established by the property boundaries in all directions. The vertical extent of contamination is not defined at the following sampling locations for the listed COCs:

- B-2/KP-SB01 – trichloroethene at 18 to 20 ft bgs
- B-3/KP-SB09 – trichloroethene at 6 to 9 ft bgs
- B-4 - cis-1,2-dichloroethene and vinyl chloride at 9 to 12 ft bgs
- B-5/KP-SB02 – cis-1,2-dichloroethene, trichloroethene, and vinyl chloride at 18 to 20 ft bgs
- B-8/KP-SB10 – benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene at 12 to 14 ft bgs
- KP-SB04 – trichloroethene and vinyl chloride at 14 to 16 ft bgs
- KP-SB05 – trichloroethene and vinyl chloride at 14 to 16 ft bgs
- KP-SB06 – cis-1,2-Dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride at 14 to 16 ft bgs
- KP-SB08 – cis-1,2-dichloroethene and vinyl chloride at 15 to 17 ft bgs

Analytical results from groundwater samples indicated the presence of chloroform, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride, and iron at concentrations exceeding the Tier 1 Class II groundwater remediation objectives for the groundwater component of the groundwater ingestion route. The vertical or horizontal extent of the groundwater plume has not been defined.

Based on observations during the field activities and evaluation of the analytical results, sources of chemical contamination at the Site may be attributed to: 1) former industrial use of the eastern adjacent property for manufacturing purposes as ELC, ALMC, and Compco; 2) long term historical Site uses that included painting, automobile warehousing, lumber storage and warehousing, and storage operations; 3) potential unregistered USTs on-site or adjacent to the Site; and 4) the presence of undocumented urban fill brought onto the Site.

Based on the findings of this investigation, WESTON recommends:

- Address potential vapor migration to nearby residential properties
- Define the vertical extent of soil contamination
- Define the vertical and horizontal extent of the groundwater plume
- Evaluate remedial technologies
- Develop Remediation Objectives Report
- Develop Remedial Action Plan

TABLES

**Table 2-1
Summary of Sampling Program
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Sampling Location ID	Field Sample ID	Sampling Date	Sampling Interval (ft bgs)	Analytical Parameters															
				VOCs	BTEX	SVOCs	PAHs	TPH as GRO and DRO	PCBs	Pesticides	Herbicides	TCL Metals	RCRA Metals	Select Metals	TCLP Metals	Cyanide	Explosives	Fraction organic carbon	pH
Soil Samples																			
B-1	B-1 (0-3)	8/4/2010	0 - 3	X			X		X	X			X		Cr				X
	B-1 (3-6)	8/4/2010	3 - 6				X						X						X
	B-1 (6-9)	8/4/2010	6 - 9	X										Cr					X
	B-1 (9-12)	8/4/2010	9 - 12	X										Cr					
B-2/KP-SB01	B-2 (3-6)	8/4/2010	3 - 6	X		X			X	X		X					X		X
	B-2 (6-9)	8/4/2010	6 - 9	X		X							X						X
	KP-SB01(6-9)	5/29/2012	6 - 9					X											
	B-2 (9-12)	8/4/2010	9 - 12	X															
	KP-SB01(18-20)	5/29/2012	18 - 20	X															
B-3/KP-SB09	KP-SB09(0-3)	5/29/2012	0 - 3	X		X													X
	B-3 (3-6)	8/4/2010	3 - 6	X			X		X	X			X						X
	KP-SB09(3-6)	5/29/2012	3 - 6																X
	B-3 (6-9)	8/4/2010	6 - 9	X			X						X						X
B-4	B-4 (0-3)	8/4/2010	0 - 3			X			X	X			X						X
	B-4 (3-6)	8/4/2010	3 - 6				X					X					X		X
	B-4 (6-9)	8/4/2010	6 - 9	X										Sb, As, Fe, Pb, Hg					
	B-4 (9-12)	8/4/2010	9 - 12	X		X													
B-5/KP-SB02	B-5 (0-3)	8/4/2010	0 - 3				X					X					X		X
	B-5 (3-6)	8/4/2010	3 - 6	X		X			X	X		X					X		X
	B-5 (6-9)	8/4/2010	6 - 9	X		X			X	X				Sb, As, Pb, Hg, Se					
	B-5 (9-12)	8/4/2010	9 - 12	X															
	KP-SB02(9-12)	5/29/2012	9 - 12					X											
B-6	KP-SB02(18-20)	5/29/2012	18 - 20	X															
	B-6 (0-3)	8/4/2010	0 - 3	X		X			X	X			X						X
	B-6 (3-6)	8/4/2010	3 - 6	X		X			X	X			X		RCRA				X
	B-6 (6-9)	8/4/2010	6 - 9	X										As, Cr, Pb, Hg					X
B-7/KP-SB03	B-6 (9-12)	8/4/2010	9 - 12	X															
	B-7 (0-3)	8/4/2010	0 - 3	X		X			X	X	X		X						X
	B-7 (3-6)	8/4/2010	3 - 6	X		X							X						X
	B-7 (6-9)	8/4/2010	6 - 9	X			X												X
	B-7 (9-12)	8/4/2010	9 - 12	X															
KP-SB03(9-12)	5/29/2012	9 - 12			X														X

**Table 2-1
Summary of Sampling Program
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Sampling Location ID	Field Sample ID	Sampling Date	Sampling Interval (ft bgs)	Analytical Parameters															
				VOCs	BTEX	SVOCs	PAHs	TPH as GRO and DRO	PCBs	Pesticides	Herbicides	TCL Metals	RCRA Metals	Select Metals	TCLP Metals	Cyanide	Explosives	Fraction organic carbon	pH
B-8/KP-SB10	B-8 (0-3)	8/4/2010	0 - 3		X		X				X		X					X	
	KP-SB10(3-5)	5/29/2012	3 - 5				X												
	KP-SB10(12-14)	5/29/2012	12 - 14				X												
	KP-SB10(12-14)D	5/29/2012	12 - 14				X												
KP-SB04	KP-SB04(10-12)	5/29/2012	10 - 12	X															
	KP-SB04(14-16)	5/29/2012	14 - 16	X															
KP-SB05	KP-SB05(11-13)	5/29/2012	11 - 13	X															
	KP-SB05(14-16)	5/29/2012	14 - 16	X															
KP-SB06	KP-SB06(10-12)	5/29/2012	10 - 12	X															
	KP-SB06(14-16)	5/29/2012	14 - 16	X															
KP-SB07	KP-SB07(8-10)	5/29/2012	8 - 10	X															
	KP-SB07(14-16)	5/29/2012	14 - 16	X															
KP-SB08	KP-SB08(4-6)	5/29/2012	4 - 6	X															
	KP-SB08(15-17)	5/29/2012	15 - 17	X				X											
Total Number of Soil Samples Analyzed				35	1	12	11	3	9	9	2	4	11	5	2	4	0	5	17
Groundwater Samples																			
TMW-1/ KP-MW01	TMW-1	8/10/2010	6 - 17	X								X				X			
	TMW-1	8/17/2010	6 - 17				X												
	KP-MW01-	6/1/2012	8 - 18	X		X			X	X		X				X			
TMW-2/ KP-MW02	TMW-2	8/10/2010	8 - 18	X		X						X				X			
	TMW-2	8/11/2010	8 - 18						X	X									
	KP-MW02-060112	6/1/2012	9 - 19	X		X			X	X		X				X			
TMW-3/ KP-MW03	TMW-3	8/10/2010	6 - 16	X			X							X					
	TMW-3	8/11/2010	6 - 16						X	X									
	TMW-3	8/17/2010	6 - 16								X						X		
	KP-MW03-060112	6/1/2012	8 - 18	X		X			X	X		X				X			
	KP-MW03-060112D	6/1/2012	8 - 18	X		X			X	X		X				X			
Total Number of Groundwater Samples Analyzed				7	0	5	2	0	6	6	1	6	1	0	0	6	1	0	0

Table 2-1
Summary of Sampling Program
Kimball Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Notes:

Sample interval for monitoring wells identifies screened interval below ground surface.

BTEX = Benzene, toluene, ethylbenzene, xylene

-D = Field duplicate sample

DRO = Diesel range organic

ft bgs = Feet below ground surface

GRO = Gasoline range organic

IAC = Illinois Administrative Code

ID = Identification

PAH = Polycyclic aromatic hydrocarbon

PCB = Polychlorinated biphenyl

RCRA metals = Resource Conservation and Recovery Act metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)

SVOC = Semivolatile organic compound

TCL = Target Compound List; 35 Illinois Administrative Code (IAC) Part 740, Appendix A.

TCLP = Toxicity characteristic leaching procedure

TPH = Total petroleum hydrocarbon

VOC = Volatile organic compound

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01
					Field Sample ID	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (0-12)	B-2 (3-6)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	0- 3	3- 6	6- 9	9-12	3- 6
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---	---
TPH										
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---	---
VOCs										
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	---	---	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	---	---	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	---	---	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	---	---	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
2-Hexanone+	NA	390	47	0.16	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
Acetone	NA	70,000	100,000	25	mg/kg	0.05 U	---	0.05 U	0.05 U	0.05 U
Benzene	NA	0.8	2.2	0.17	mg/kg	0.005 U	---	0.005 U	0.005 U	0.008
Carbon disulfide	NA	720	9	160	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
Chloroethane+	NA	1,500	39	NA	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	0.01	---	0.05	0.005 U	0.2
Ethylbenzene	NA	400	58	19	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	---	---	---	---
n-Hexane+	NA	290	16	120	mg/kg	---	---	---	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	---	---	---	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	---	---	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	---	---	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	0.005 U	---	0.005 U	0.005 U	0.05
Toluene	NA	650	42	29	mg/kg	0.005 U	---	0.005 U	0.005 U	0.008
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	0.005 U	---	0.005 U	0.005 U	0.005 U
Trichloroethene	NA	5	12	0.3	mg/kg	0.03	---	0.09	0.005 U	0.3
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	0.002 U	---	0.002 U	0.002 U	0.002 U
Xylenes, Total	NA	320	5.6	150	mg/kg	0.005 U	---	0.005 U	0.005 U	0.006

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01
					Field Sample ID	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (0-12)	B-2 (3-6)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	0- 3	3- 6	6- 9	9-12	3- 6
SVOCs										
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	---	---	---	0.12 U
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	0.05 U	0.05 U	---	---	0.15 U
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	0.05 U	0.05 U	---	---	0.07 U
Anthracene	0.25	23,000	610,000	59,000	mg/kg	0.12	0.08 U	---	---	0.3 U
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	2.42	0.008 U	---	---	0.07 U
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	4.58	0.02 U	---	---	0.07 U
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	6.29	0.05	---	---	0.06 U
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	3.76	0.15	---	---	0.12 U
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	2.09	0.02	---	---	0.12 U
Chrysene	1.2	88	17,000	800	mg/kg	2.58	0.05 U	---	---	0.09 U
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	0.25	0.02 U	---	---	0.11 U
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	2.16	0.05 U	---	---	0.18
Fluorene	0.1	3,100	82,000	2,800	mg/kg	0.03 U	0.03 U	---	---	0.14 U
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	3.45	0.11	---	---	0.13 U
Naphthalene	0.04	170	1.8	18	mg/kg	0.05 U	0.05 U	---	---	0.09 U
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	0.45	0.03 U	---	---	0.12 U
Pyrene	1.9	2,300	61,000	21,000	mg/kg	1.94	0.05 U	---	---	0.23
Pesticides										
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	0.02 U	---	---	---	0.02 U
Endrin	NA	23	61	1	mg/kg	0.02 U	---	---	---	0.02 U
Endrin ketone	NA	NA	NA	NA	mg/kg	0.02 U	---	---	---	0.02 U
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	0.008 U	---	---	---	0.008 U
PCBs										
Not Detected in any samples						ND	---	---	---	ND
Herbicides										
Not Detected in any samples						---	---	---	---	---
Sum of Organics					mg/kg	30.1	0.33	0.14	0.0	1.0

Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
					Field Sample ID	B-2 (6-9)	KP-SB01(6-9)	B-2 (9-12)	KP-SB01(18-20)
					Sampling Date	8/4/2010	5/29/2012	8/4/2010	5/29/2012
					Sampling Depth (ft bgs)	6-9	6-9	9-12	18-20
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---
TPH									
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	20.3	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	29	---	---
VOCs									
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.005 U	---	0.05	0.0046 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.005 U	---	0.05	0.0043 J
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	---	---	0.0037 J
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	---	---	0.0046 U
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	---	---	0.0046 U
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	---	---	0.0046 U
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.005 U	---	0.005 U	0.023 U
2-Hexanone+	NA	390	47	0.16	mg/kg	0.005 U	---	0.005 U	0.092 U
Acetone	NA	70,000	100,000	25	mg/kg	0.05 U	---	0.05 U	0.092 U
Benzene	NA	0.8	2.2	0.17	mg/kg	0.2	---	0.005 U	0.0046 U
Carbon disulfide	NA	720	9	160	mg/kg	0.005 U	---	0.005 U	0.0092 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.005 U	---	0.005 U	0.0046 U
Chloroethane+	NA	1,500	39	NA	mg/kg	0.005 U	---	0.005 U	0.0046 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.005 U	---	6.13	0.0061
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	368	---	1.16	0.077
Ethylbenzene	NA	400	58	19	mg/kg	3	---	0.01	0.0046 U
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	---	---	0.0046 U
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	0.0046 U
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	---	---	0.0036 J
n-Hexane+	NA	290	16	120	mg/kg	---	---	---	0.019
n-Propylbenzene+	NA	300	90	120	mg/kg	---	---	---	0.0039 J
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	---	---	0.0046 U
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	---	---	0.0046 U
Tetrachloroethene	NA	11	28	0.3	mg/kg	1	---	0.04	0.0046 U
Toluene	NA	650	42	29	mg/kg	10	---	0.28	0.0029 J
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	8	---	0.06	0.0034 J
Trichloroethene	NA	5	12	0.3	mg/kg	599	---	408	8.2
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	11	---	0.16	0.016
Xylenes, Total	NA	320	5.6	150	mg/kg	4	---	0.05	0.0092 U

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
					Field Sample ID	B-2 (6-9)	KP-SB01(6-9)	B-2 (9-12)	KP-SB01(18-20)
					Sampling Date	8/4/2010	5/29/2012	8/4/2010	5/29/2012
					Sampling Depth (ft bgs)	6-9	6-9	9-12	18-20
SVOCs									
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	0.12 U	---	---	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	0.15 U	---	---	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	0.07 U	---	---	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	0.3 U	---	---	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	0.07 U	---	---	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	0.07 U	---	---	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	0.06 U	---	---	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	0.12 U	---	---	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	0.12 U	---	---	---
Chrysene	1.2	88	17,000	800	mg/kg	0.09 U	---	---	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	0.11 U	---	---	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	0.09 U	---	---	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	0.14 U	---	---	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	0.13 U	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	0.09 U	---	---	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	0.12 U	---	---	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	0.07 U	---	---	---
Pesticides									
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	---	---
Endrin	NA	23	61	1	mg/kg	---	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	---	---
PCBs									
Not Detected in any samples						---	---	---	---
Herbicides									
Not Detected in any samples						---	---	---	---
Sum of Organics					mg/kg	1,004	49.3	416	8.3

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09
					Field Sample ID	KP-SB01(18-20)D	KP-SB09(0-3)	B-3 (3-6)	KP-SB09(3-6)
					Sampling Date	5/29/2012	5/29/2012	8/4/2010	5/29/2012
					Sampling Depth (ft bgs)	18- 20	0- 3	3- 6	3- 6
Fractional Organic Carbon	NA	NA	NA	NA	%	---	3	---	1.3
TPH									
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---
VOCs									
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.0062 U	0.0044 U	0.005 U	---
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.0051 J	0.0044 U	0.005 U	---
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	0.0062 U	0.019	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	0.0062 U	0.0044 U	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	0.0062 U	0.0053	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	0.0062 U	0.0044 U	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.031 U	0.022 U	0.005 U	---
2-Hexanone+	NA	390	47	0.16	mg/kg	0.12 U	0.088 U	0.005 U	---
Acetone	NA	70,000	100,000	25	mg/kg	0.12 U	0.088 U	0.05 U	---
Benzene	NA	0.8	2.2	0.17	mg/kg	0.0062 U	0.0018 J	0.005 U	---
Carbon disulfide	NA	720	9	160	mg/kg	0.012 U	0.0088 U	0.005 U	---
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.0062 U	0.0044 U	0.005 U	---
Chloroethane+	NA	1,500	39	NA	mg/kg	0.0062 U	0.0044 U	0.005 U	---
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.0034 J	0.0044 U	0.005 U	---
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	0.045	0.0044 U	0.005 U	---
Ethylbenzene	NA	400	58	19	mg/kg	0.0062 U	0.0044 U	0.005 U	---
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	0.0062 U	0.005	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	0.0062 U	0.0044 U	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	0.0062 U	0.0044 U	---	---
n-Hexane+	NA	290	16	120	mg/kg	0.0062 U	0.0044 U	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	0.0062 U	0.0045	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	0.0062 U	0.0044 U	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	0.0062 U	0.0044 U	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	0.0062 U	0.0044 U	0.005 U	---
Toluene	NA	650	42	29	mg/kg	0.0062 U	0.0044 U	0.005 U	---
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	0.0062 U	0.0044 U	0.005 U	---
Trichloroethene	NA	5	12	0.3	mg/kg	9.6	0.0044 U	0.01	---
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	0.012	0.0044 U	0.002 U	---
Xylenes, Total	NA	320	5.6	150	mg/kg	0.012 U	0.049	0.005 U	---

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09
					Field Sample ID	KP-SB01(18-20)D	KP-SB09(0-3)	B-3 (3-6)	KP-SB09(3-6)
					Sampling Date	5/29/2012	5/29/2012	8/4/2010	5/29/2012
					Sampling Depth (ft bgs)	18- 20	0- 3	3- 6	3- 6
SVOCs									
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	0.41 U	---	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	---	0.41 UJ	0.05 U	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	---	0.41 UJ	0.05 U	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	---	0.41 U	0.08 U	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	---	0.41 UJ	0.008 U	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	---	0.41 U	0.02 U	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	---	0.41 U	0.01 U	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	---	0.41 U	0.02 U	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	---	0.41 U	0.01 U	---
Chrysene	1.2	88	17,000	800	mg/kg	---	0.41 UJ	0.05 U	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	---	0.41 U	0.02 U	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	---	0.41 U	0.05 U	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	---	0.41 UJ	0.03 U	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	---	0.41 U	0.02 U	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	0.41 U	0.05 U	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	---	0.41 U	0.03 U	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	---	0.22 J	0.05 U	---
Pesticides									
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	0.02 U	---
Endrin	NA	23	61	1	mg/kg	---	---	0.02 U	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	0.02 U	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	0.008 U	---
PCBs									
Not Detected in any samples						---	---	ND	---
Herbicides									
Not Detected in any samples						---	---	---	---
Sum of Organics					mg/kg	9.7	0.30	0.01	0.0

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-3/KP-SB09	B-4	B-4	B-4	B-4
					Field Sample ID	B-3 (6-9)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	6-9	0-3	3-6	6-9	9-12
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---	---
TPH										
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---	---
VOCs										
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.005 U	---	---	0.005 U	0.005 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.005 U	---	---	2	0.005 U
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	---	---	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	---	---	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	---	---	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	---	---	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.005 U	---	---	0.005 U	0.005 U
2-Hexanone+	NA	390	47	0.16	mg/kg	0.005 U	---	---	0.005 U	0.005 U
Acetone	NA	70,000	100,000	25	mg/kg	0.05 U	---	---	0.05 U	0.05 U
Benzene	NA	0.8	2.2	0.17	mg/kg	0.005 U	---	---	0.005 U	0.005 U
Carbon disulfide	NA	720	9	160	mg/kg	0.005 U	---	---	0.005 U	0.005 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.005 U	---	---	0.005 U	0.005 U
Chloroethane+	NA	1,500	39	NA	mg/kg	0.005 U	---	---	0.005 U	0.3
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.005 U	---	---	0.005 U	0.005 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	1	---	---	872	20
Ethylbenzene	NA	400	58	19	mg/kg	0.005 U	---	---	0.005 U	0.005 U
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	---	---	---	---
n-Hexane+	NA	290	16	120	mg/kg	---	---	---	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	---	---	---	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	---	---	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	---	---	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	0.005 U	---	---	5	0.005 U
Toluene	NA	650	42	29	mg/kg	0.005 U	---	---	0.005 U	0.005 U
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	0.005 U	---	---	15	0.005 U
Trichloroethene	NA	5	12	0.3	mg/kg	2	---	---	0.005 U	0.005 U
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	0.002 U	---	---	10	0.2
Xylenes, Total	NA	320	5.6	150	mg/kg	0.005 U	---	---	0.005 U	0.005 U

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-3/KP-SB09	B-4	B-4	B-4	B-4
					Field Sample ID	B-3 (6-9)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	6- 9	0- 3	3- 6	6- 9	9- 12
SVOCs										
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	0.12 U	---	---	0.12 U
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	0.05 U	0.15 U	0.13	---	0.15 U
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	0.05 U	0.07 U	0.1	---	0.07 U
Anthracene	0.25	23,000	610,000	59,000	mg/kg	0.08 U	0.36	0.87	---	0.3 U
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	0.008 U	1.28	2.83	---	0.07 U
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	0.02 U	1.15	2.77	---	0.07 U
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	0.01 U	1.57	3.48	---	0.06 U
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	0.02 U	0.6	1.7	---	0.12 U
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	0.01 U	0.68	0.97	---	0.12 U
Chrysene	1.2	88	17,000	800	mg/kg	0.05 U	1.67	2.58	---	0.09 U
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	0.02 U	0.11 U	0.1	---	0.11 U
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	0.05 U	2.33	4.95	---	0.09 U
Fluorene	0.1	3,100	82,000	2,800	mg/kg	0.03 U	0.14 U	0.18	---	0.14 U
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	0.02 U	0.48	1.43	---	0.13 U
Naphthalene	0.04	170	1.8	18	mg/kg	0.05 U	0.09 U	0.25	---	0.09 U
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	0.03 U	1.66	3.04	---	0.12 U
Pyrene	1.9	2,300	61,000	21,000	mg/kg	0.05 U	2.45	4.7	---	0.07 U
Pesticides										
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	0.02 U	---	---	---
Endrin	NA	23	61	1	mg/kg	---	0.02 U	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	0.02 U	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	0.008 U	---	---	---
PCBs										
Not Detected in any samples						---	ND	---	---	---
Herbicides										
Not Detected in any samples						---	---	---	---	---
Sum of Organics					mg/kg	3.0	14.2	30.1	904	20.5

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02
					Field Sample ID	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	0- 3	3- 6	6- 9	9- 12
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---
TPH									
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---
VOCs									
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	---	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	---	0.005 U	0.005 U	<u>4</u>
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	---	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	---	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	---	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	---	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	---	0.005 U	0.005 U	0.005 U
2-Hexanone+	NA	390	47	0.16	mg/kg	---	0.005 U	0.005 U	0.005 U
Acetone	NA	70,000	100,000	25	mg/kg	---	0.05 U	0.05 U	0.05 U
Benzene	NA	0.8	2.2	0.17	mg/kg	---	<u>0.4</u>	0.005 U	0.005 U
Carbon disulfide	NA	720	9	160	mg/kg	---	0.005 U	0.005 U	0.005 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	---	0.005 U	0.005 U	0.005 U
Chloroethane+	NA	1,500	39	NA	mg/kg	---	0.005 U	0.005 U	0.005 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	---	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	---	<u>8</u>	<u>942</u>	<u>990</u>
Ethylbenzene	NA	400	58	19	mg/kg	---	0.005 U	0.005 U	0.005 U
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	---	---	---
n-Hexane+	NA	290	16	120	mg/kg	---	---	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	---	---	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	---	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	---	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	---	<u>0.5</u>	0.005 U	<u>14</u>
Toluene	NA	650	42	29	mg/kg	---	0.3	0.005 U	0.005 U
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	---	0.005 U	<u>7.34</u>	<u>14</u>
Trichloroethene	NA	5	12	0.3	mg/kg	---	<u>73</u>	0.005 U	0.005 U
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	---	<u>26</u>	<u>44.2</u>	0.002 U
Xylenes, Total	NA	320	5.6	150	mg/kg	---	0.005 U	0.005 U	0.005 U

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02
					Field Sample ID	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	0- 3	3- 6	6- 9	9- 12
SVOCs									
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	0.64	0.12 U	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	0.05 U	0.15 U	0.15 U	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	0.05 U	0.07 U	0.07 U	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	0.08 U	0.39	0.3 U	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	0.12	1.07	0.07 U	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	0.11	1.1	0.07 U	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	0.15	1.2	0.06 U	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	0.17	0.69	0.12 U	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	0.07	0.4	0.12 U	---
Chrysene	1.2	88	17,000	800	mg/kg	0.11	0.97	0.09 U	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	0.02 U	0.11 U	0.11 U	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	0.21	1.9	0.09 U	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	0.03 U	0.14 U	0.14 U	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	0.12	0.46	0.13 U	---
Naphthalene	0.04	170	1.8	18	mg/kg	0.05 U	0.49	0.09 U	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	0.08	1.86	0.12 U	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	0.19	2.57	0.07 U	---
Pesticides									
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	0.02 U	0.02 U	---
Endrin	NA	23	61	1	mg/kg	---	0.02 U	0.02 U	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	0.02 U	0.02 U	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	0.008 U	0.008 U	---
PCBs									
Not Detected in any samples						---	ND	ND	---
Herbicides									
Not Detected in any samples						---	---	---	---
Sum of Organics					mg/kg	1.3	122	994	1,022

Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
					Field Sample ID	KP-SB02(9-12)	KP-SB02(18-20)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
					Sampling Date	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	9- 12	18- 20	0- 3	3- 6	6- 9
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---	---
TPH										
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	1,720	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	43.6 J	---	---	---	---
VOCs										
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	---	0.0047 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	---	0.019 J	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	0.0047 U	---	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	0.0047 U	---	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	0.0047 U	---	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	0.0047 U	---	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	---	0.024 U	0.005 U	0.005 U	0.005 U
2-Hexanone+	NA	390	47	0.16	mg/kg	---	0.095 U	0.005 U	0.005 U	0.005 U
Acetone	NA	70,000	100,000	25	mg/kg	---	0.095 U	0.05 U	0.05 U	0.05 U
Benzene	NA	0.8	2.2	0.17	mg/kg	---	0.0047 U	0.005 U	0.005 U	0.005 U
Carbon disulfide	NA	720	9	160	mg/kg	---	0.0095 U	0.005 U	0.005 U	0.005 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	---	0.0047 U	0.005 U	0.005 U	0.005 U
Chloroethane+	NA	1,500	39	NA	mg/kg	---	0.0047 U	0.005 U	0.005 U	0.005 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	---	0.0047 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	---	56.6 J	0.02	0.1	0.005 U
Ethylbenzene	NA	400	58	19	mg/kg	---	0.0047 U	0.005 U	0.005 U	0.005 U
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	0.0047 U	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	0.0047 U	---	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	0.0047 U	---	---	---
n-Hexane+	NA	290	16	120	mg/kg	---	0.0047 U	---	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	---	0.0047 U	---	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	0.0047 U	---	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	0.0047 U	---	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	---	0.017 J	0.005 U	0.005 U	0.005 U
Toluene	NA	650	42	29	mg/kg	---	0.0027 J	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	---	0.054 J	0.005 U	0.005 U	0.005 U
Trichloroethene	NA	5	12	0.3	mg/kg	---	803 J	0.08	I	0.02
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	---	3 J	0.002 U	0.002 U	0.02
Xylenes, Total	NA	320	5.6	150	mg/kg	---	0.0095 U	0.005 U	0.01	0.005 U

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
					Field Sample ID	KP-SB02(9-12)	KP-SB02(18-20)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
					Sampling Date	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	9- 12	18- 20	0- 3	3- 6	6- 9
SVOCs										
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	---	0.19	0.12 U	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	---	---	0.15 U	0.15 U	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	---	---	0.07 U	0.07 U	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	---	---	0.73	0.3 U	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	---	---	2.42	0.21	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	---	---	2.21	0.29	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	---	---	2.67	0.36	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	---	---	0.99	0.25	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	---	---	0.81	0.16	---
Chrysene	1.2	88	17,000	800	mg/kg	---	---	2.2	0.25	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	---	---	0.11 U	0.11 U	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	---	---	4.26	0.3	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	---	---	0.14 U	0.14 U	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	---	---	0.88	0.19	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	0.25	0.09 U	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	---	---	3.95	0.12 U	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	---	---	5.47	0.44	---
Pesticides										
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	0.02 U	0.02 U	---
Endrin	NA	23	61	1	mg/kg	---	---	0.02 U	0.02 U	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	0.02 U	0.02 U	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	0.04	0.008 U	---
PCBs										
Not Detected in any samples						---	---	ND	ND	---
Herbicides										
Not Detected in any samples						---	---	---	---	---
Sum of Organics					mg/kg	1,764	863	27.2	3.6	0.0

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03
					Field Sample ID	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---	---
TPH										
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---	---
VOCs										
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	---	---	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	---	---	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	---	---	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	---	---	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2-Hexanone+	NA	390	47	0.16	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Acetone	NA	70,000	100,000	25	mg/kg	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzene	NA	0.8	2.2	0.17	mg/kg	0.005 U	0.005 U	0.007	0.008	0.005 U
Carbon disulfide	NA	720	9	160	mg/kg	0.005 U	0.01	0.02	0.005 U	0.005 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroethane+	NA	1,500	39	NA	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	NA	400	58	19	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	---	---	---	---
n-Hexane+	NA	290	16	120	mg/kg	---	---	---	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	---	---	---	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	---	---	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	---	---	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	0.08	0.005 U	0.005 U	0.005 U	0.005 U
Toluene	NA	650	42	29	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	NA	5	12	0.3	mg/kg	0.005 U	0.03	0.04	0.009	0.005 U
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Xylenes, Total	NA	320	5.6	150	mg/kg	0.005 U	0.005 U	0.008	0.005 U	0.005 U

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03
					Field Sample ID	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)
					Sampling Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010
					Sampling Depth (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12
SVOCs										
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	0.12 U	0.4	---	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	---	0.15 U	0.15 U	0.05 U	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	---	0.07 U	0.07 U	0.05 U	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	---	0.41	0.43	0.08 U	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	---	1.76	1.65	0.008 U	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	---	1.91	1.88	0.02 U	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	---	2.24	2.03	0.01 U	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	---	1.21	1.21	0.02 U	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	---	0.66	0.75	0.01 U	---
Chrysene	1.2	88	17,000	800	mg/kg	---	1.95	1.53	0.05 U	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	---	0.11 U	0.11 U	0.02 U	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	---	3.38	3.25	0.05 U	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	---	0.14 U	0.14 U	0.03 U	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	---	0.82	0.87	0.02 U	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	0.09 U	0.37	0.05 U	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	---	2.25	2.51	0.03 U	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	---	4.56	4.77	0.05 U	---
Pesticides										
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	0.11	---	---	---
Endrin	NA	23	61	1	mg/kg	---	0.07	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	0.05	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	0.008 U	---	---	---
PCBs										
Not Detected in any samples						---	ND	---	---	---
Herbicides										
Not Detected in any samples						---	ND	---	---	---
Sum of Organics					mg/kg	0.08	21.4	21.7	0.0	0.0

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-7/KP-SB03	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10
					Field Sample ID	KP-SB03(9-12)	B-8 (0-3)	KP-SB10(3-5)	KP-SB10(12-14)
					Sampling Date	5/29/2012	8/4/2010	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	9- 12	0- 3	3- 5	12- 14
Fractional Organic Carbon	NA	NA	NA	NA	%	1.4	---	---	---
TPH									
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---
VOCs									
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	---	---	---	---
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	---	---	---	---
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	---	---	---
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	---	---	---
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	---	---	---
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	---	---	---
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	---	---	---	---
2-Hexanone+	NA	390	47	0.16	mg/kg	---	---	---	---
Acetone	NA	70,000	100,000	25	mg/kg	---	---	---	---
Benzene	NA	0.8	2.2	0.17	mg/kg	---	0.005 U	---	---
Carbon disulfide	NA	720	9	160	mg/kg	---	---	---	---
Chlorobenzene	NA	130	1.3	6.5	mg/kg	---	---	---	---
Chloroethane+	NA	1,500	39	NA	mg/kg	---	---	---	---
Chloroform	NA	0.3	0.76	2.9	mg/kg	---	---	---	---
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	---	---	---	---
Ethylbenzene	NA	400	58	19	mg/kg	---	0.005 U	---	---
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	---	---	---
n-Hexane+	NA	290	16	120	mg/kg	---	---	---	---
n-Propylbenzene+	NA	300	90	120	mg/kg	---	---	---	---
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	---	---	---
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	---	---	---
Tetrachloroethene	NA	11	28	0.3	mg/kg	---	---	---	---
Toluene	NA	650	42	29	mg/kg	---	0.005 U	---	---
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	---	---	---	---
Trichloroethene	NA	5	12	0.3	mg/kg	---	---	---	---
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	---	---	---	---
Xylenes, Total	NA	320	5.6	150	mg/kg	---	0.005 U	---	---

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-7/KP-SB03	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10
					Field Sample ID	KP-SB03(9-12)	B-8 (0-3)	KP-SB10(3-5)	KP-SB10(12-14)
					Sampling Date	5/29/2012	8/4/2010	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	9- 12	0- 3	3- 5	12- 14
SVOCs									
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	0.4 U	---	0.14	0.21
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	0.4 UJ	0.67	0.36	0.52
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	0.4 UJ	0.35	0.12	0.096
Anthracene	0.25	23,000	610,000	59,000	mg/kg	0.4 U	2.47	0.94	1.2
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	0.4 UJ	9.27	2.4	2.2
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	0.4 U	9.36	2.2	2
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	0.4 U	11.5	2.4	1.9
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	0.4 U	4.63	1.5	1.2
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	0.4 U	3.95	2	1.8
Chrysene	1.2	88	17,000	800	mg/kg	0.4 UJ	8.17	2.8	2.5
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	0.4 U	0.35	0.77	0.66
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	0.4 U	17.6	5.2	5.1
Fluorene	0.1	3,100	82,000	2,800	mg/kg	0.4 UJ	0.78	0.44	0.67
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	0.4 U	4.29	1.4	1.1
Naphthalene	0.04	170	1.8	18	mg/kg	0.4 U	0.41	0.26	0.35
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	0.4 U	7.63	3.9	4.6
Pyrene	1.9	2,300	61,000	21,000	mg/kg	0.4 U	15.2	4.3	4.1
Pesticides									
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	---	---
Endrin	NA	23	61	1	mg/kg	---	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	---	---
PCBs									
Not Detected in any samples						---	---	---	---
Herbicides									
Not Detected in any samples						---	ND	---	---
Sum of Organics					mg/kg	0.0	96.6	31.1	30.2

Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-8/KP-SB10	KP-SB04	KP-SB04
					Field Sample ID	KP-SB10(12-14)D	KP-SB04(10-12)	KP-SB04(14-16)
					Sampling Date	5/29/2012	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	12- 14	10- 12	14- 16
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---
TPH								
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---
VOCs								
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	---	0.0045 U	0.0047 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	---	0.35 J	0.18 J
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	---	0.018 J	0.012 J
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	---	0.0045 U	0.0047 U
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	---	0.0061 J	0.004 J
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	---	0.0045 U	0.0047 U
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	---	0.022 U	0.024 U
2-Hexanone+	NA	390	47	0.16	mg/kg	---	0.09 U	0.095 U
Acetone	NA	70,000	100,000	25	mg/kg	---	0.09 U	0.095 U
Benzene	NA	0.8	2.2	0.17	mg/kg	---	0.0045 U	0.0015 J
Carbon disulfide	NA	720	9	160	mg/kg	---	0.009 U	0.0095 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	---	0.0045 U	0.0047 U
Chloroethane+	NA	1,500	39	NA	mg/kg	---	0.0045 U	0.0047 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	---	0.0045 U	0.0047 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	---	2.6 J	0.28 J
Ethylbenzene	NA	400	58	19	mg/kg	---	0.008 J	0.0038 J
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	---	0.0045 U	0.0047 U
Naphthalene	0.04	170	1.8	18	mg/kg	---	0.0032 J	0.0039 J
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	---	0.0045 U	0.0047 U
n-Hexane+	NA	290	16	120	mg/kg	---	0.013 J	0.0079 J
n-Propylbenzene+	NA	300	90	120	mg/kg	---	0.0059 J	0.0029 J
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	---	0.0045 U	0.0047 U
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	---	0.0045 U	0.0047 U
Tetrachloroethene	NA	11	28	0.3	mg/kg	---	4.1 J	0.28 J
Toluene	NA	650	42	29	mg/kg	---	0.036 J	0.016 J
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	---	0.028 J	0.011 J
Trichloroethene	NA	5	12	0.3	mg/kg	---	3510 J	894 J
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	---	0.088 J	0.41 J
Xylenes, Total	NA	320	5.6	150	mg/kg	---	0.033 J	0.011 J

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	B-8/KP-SB10	KP-SB04	KP-SB04
					Field Sample ID	KP-SB10(12-14)D	KP-SB04(10-12)	KP-SB04(14-16)
					Sampling Date	5/29/2012	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	12- 14	10- 12	14- 16
SVOCs								
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	0.11	---	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	0.36	---	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	0.095	---	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	0.89	---	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	2.1	---	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	1.9	---	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	2.1	---	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	1.3	---	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	1.7	---	---
Chrysene	1.2	88	17,000	800	mg/kg	2.4	---	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	0.66	---	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	4.7	---	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	0.43	---	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	1.2	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	0.2	---	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	3.5	---	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	3.8	---	---
Pesticides								
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	---
Endrin	NA	23	61	1	mg/kg	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	---
PCBs								
Not Detected in any samples						---	---	---
Herbicides								
Not Detected in any samples						---	---	---
Sum of Organics					mg/kg	27.4	3,517	895

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	KP-SB05	KP-SB05	KP-SB06	KP-SB06
					Field Sample ID	KP-SB05(11-13)	KP-SB05(14-16)	KP-SB06(10-12)	KP-SB06(14-16)
					Sampling Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	11- 13	14- 16	10- 12	14- 16
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---
TPH									
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	---
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	---
VOCs									
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.005 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.32 J	0.081	1.2 J	0.26
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	0.012 J	0.0062 U	0.05	0.028
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.005 U
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	0.0036 J	0.0062 U	0.018	0.011
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.005 U
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.022 U	0.031 U	0.024 U	0.025 U
2-Hexanone+	NA	390	47	0.16	mg/kg	0.089 U	0.12 U	0.27	0.099 U
Acetone	NA	70,000	100,000	25	mg/kg	0.089 U	0.12 U	0.096 U	0.099 U
Benzene	NA	0.8	2.2	0.17	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.0039 J
Carbon disulfide	NA	720	9	160	mg/kg	0.0089 U	0.012 U	0.0096 U	0.0027 J
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.005 U
Chloroethane+	NA	1,500	39	NA	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.005 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.0044 U	0.0062 U	0.0048 U	0.005 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	6.3 J	0.19	22.2	22.4
Ethylbenzene	NA	400	58	19	mg/kg	0.0056 J	0.0062 U	0.018	0.0073
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	0.0044 U	0.0062 U	0.01	0.0036 J
Naphthalene	0.04	170	1.8	18	mg/kg	0.0046 J	0.0062 U	0.0042 J	0.0027 J
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	0.0044 U	0.0062 U	0.0087	0.0032 J
n-Hexane+	NA	290	16	120	mg/kg	0.0098 J	0.0062 U	0.047	0.043
n-Propylbenzene+	NA	300	90	120	mg/kg	0.0037 J	0.0062 U	0.012	0.0068
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	0.0044 U	0.0062 U	0.015	0.0043 J
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	0.0044 U	0.0062 U	0.0048	0.0027 J
Tetrachloroethene	NA	11	28	0.3	mg/kg	2.7 J	0.0061 J	3.8	0.82 J
Toluene	NA	650	42	29	mg/kg	0.033 J	0.0031 J	0.075	0.029
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	0.036 J	0.0058 J	0.18	0.12
Trichloroethene	NA	5	12	0.3	mg/kg	3590 J	338	4230	1220
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	0.38 J	0.23	0.58	0.49
Xylenes, Total	NA	320	5.6	150	mg/kg	0.022 J	0.012 U	0.072	0.026

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	KP-SB05	KP-SB05	KP-SB06	KP-SB06
					Field Sample ID	KP-SB05(11-13)	KP-SB05(14-16)	KP-SB06(10-12)	KP-SB06(14-16)
					Sampling Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	11- 13	14- 16	10- 12	14- 16
SVOCs									
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	---	---	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	---	---	---	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	---	---	---	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	---	---	---	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	---	---	---	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	---	---	---	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	---	---	---	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	---	---	---	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	---	---	---	---
Chrysene	1.2	88	17,000	800	mg/kg	---	---	---	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	---	---	---	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	---	---	---	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	---	---	---	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	---	---	---	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	---	---	---	---
Pesticides									
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	---	---
Endrin	NA	23	61	1	mg/kg	---	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	---	---
PCBs									
Not Detected in any samples						---	---	---	---
Herbicides									
Not Detected in any samples						---	---	---	---
Sum of Organics					mg/kg	3,600	339	4,259	1,244

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	KP-SB07	KP-SB07	KP-SB08	KP-SB08
					Field Sample ID	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
					Sampling Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	8- 10	14- 16	4- 6	15- 17
Fractional Organic Carbon	NA	NA	NA	NA	%	---	---	---	---
TPH									
TPH (C06-C10)	NA	NA	NA	NA	mg/kg	---	---	---	5.5
TPH-DRO (C10-C28)	NA	NA	NA	NA	mg/kg	---	---	---	31.6
VOCs									
1,1,2-Trichloroethane	NA	310	1,800	0.3	mg/kg	0.0041 J	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethene	NA	290	3	0.3	mg/kg	0.013	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trimethylbenzene+	NA	87	8.9	NA	mg/kg	0.0043 U	0.0046 U	4.1	0.06
1,2-Dichlorobenzene	NA	560	310	43	mg/kg	0.0043 U	0.0046 U	0.042	0.0028 J
1,3,5-Trimethylbenzene+	NA	780	0.79	10	mg/kg	0.0043 U	0.0046 U	0.035	0.012
1,4-Dichlorobenzene	NA	11,000	340	11	mg/kg	0.0043 U	0.0046 U	0.0084	0.0055 U
2-Butanone (MEK)+	NA	25,000	730	17	mg/kg	0.021 U	0.023 U	0.022 U	0.046
2-Hexanone+	NA	390	47	0.16	mg/kg	0.085 U	0.093 U	0.31	0.11 U
Acetone	NA	70,000	100,000	25	mg/kg	0.085 U	0.093 U	0.16	0.093 J
Benzene	NA	0.8	2.2	0.17	mg/kg	0.0043 U	0.0046 U	0.0036 J	0.0055 U
Carbon disulfide	NA	720	9	160	mg/kg	0.0085 U	0.0093 U	0.0089 U	0.011 U
Chlorobenzene	NA	130	1.3	6.5	mg/kg	0.0043 U	0.0046 U	0.092	0.0062
Chloroethane+	NA	1,500	39	NA	mg/kg	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloroform	NA	0.3	0.76	2.9	mg/kg	0.0043 U	0.0046 U	0.0045 U	0.0055 U
cis-1,2-Dichloroethene	NA	780	1,200	1.1	mg/kg	31.2	0.0046 U	0.0045 U	28.1
Ethylbenzene	NA	400	58	19	mg/kg	0.0043 U	0.0046 U	0.0034 J	0.0028 J
Isopropylbenzene (Cumene)+	NA	500	52	400	mg/kg	0.0043 U	0.0046 U	0.041	0.0065
Naphthalene	0.04	170	1.8	18	mg/kg	0.0043 U	0.0046 U	0.039	0.004 J
n-Butylbenzene+	NA	3,900	20,000	87	mg/kg	0.0043 U	0.0046 U	0.048	0.0057
n-Hexane+	NA	290	16	120	mg/kg	0.0043 U	0.0046 U	0.5	0.05
n-Propylbenzene+	NA	300	90	120	mg/kg	0.0043 U	0.0046 U	0.13	0.014
p-Isopropyltoluene	NA	NA	NA	NA	mg/kg	0.0043 U	0.0046 U	0.034	0.0069
sec-Butylbenzene	NA	NA	NA	NA	mg/kg	0.0043 U	0.0046 U	0.03	0.0034 J
Tetrachloroethene	NA	11	28	0.3	mg/kg	0.0043 U	0.0046 U	0.0045 U	0.0027 J
Toluene	NA	650	42	29	mg/kg	0.0043 U	0.0046 U	0.0027 J	0.0041 J
trans-1,2-Dichloroethene	NA	1,600	3,100	3.4	mg/kg	0.12	0.0046 U	0.0045 U	0.0086
Trichloroethene	NA	5	12	0.3	mg/kg	68.3	0.0046 U	0.0015 J	0.11
Vinyl chloride	NA	0.28	1.1	0.07	mg/kg	2	0.0046 U	0.0045 U	0.14
Xylenes, Total	NA	320	5.6	150	mg/kg	0.0085 U	0.0093 U	0.022	0.019

**Table 2-2
Summary of Soil Analytical Results for Organic Compounds
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Chicago Background	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component of Groundwater Ingestion Exposure Route Value (Class II)	Location ID	KP-SB07	KP-SB07	KP-SB08	KP-SB08
					Field Sample ID	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
					Sampling Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012
					Sampling Depth (ft bgs)	8- 10	14- 16	4- 6	15- 17
SVOCs									
2-Methylnaphthalene+	NA	310	820	9.5	mg/kg	---	---	---	---
Acenaphthene	0.09	4,700	120,000	2,900	mg/kg	---	---	---	---
Acenaphthylene+	0.03	2,300	61,000	420	mg/kg	---	---	---	---
Anthracene	0.25	23,000	610,000	59,000	mg/kg	---	---	---	---
Benzo(a)anthracene	1.1	0.9	170	8	mg/kg	---	---	---	---
Benzo(a)pyrene	1.3	0.09	17	82	mg/kg	---	---	---	---
Benzo(b)fluoranthene	1.5	0.9	170	25	mg/kg	---	---	---	---
Benzo(g,h,i)perylene+	0.68	2,300	61,000	130,000	mg/kg	---	---	---	---
Benzo(k)fluoranthene	0.99	9	1,700	250	mg/kg	---	---	---	---
Chrysene	1.2	88	17,000	800	mg/kg	---	---	---	---
Dibenz(a,h)anthracene	0.2	0.09	17	7.6	mg/kg	---	---	---	---
Fluoranthene	2.7	3,100	82,000	21,000	mg/kg	---	---	---	---
Fluorene	0.1	3,100	82,000	2,800	mg/kg	---	---	---	---
Indeno(1,2,3-cd)pyrene	0.86	0.9	170	69	mg/kg	---	---	---	---
Naphthalene	0.04	170	1.8	18	mg/kg	---	---	---	---
Phenanthrene+	1.3	2,300	61,000	1,100	mg/kg	---	---	---	---
Pyrene	1.9	2,300	61,000	21,000	mg/kg	---	---	---	---
Pesticides									
4,4'-Dichlorodiphenyltrichloroethane	NA	2	100	32	mg/kg	---	---	---	---
Endrin	NA	23	61	1	mg/kg	---	---	---	---
Endrin ketone	NA	NA	NA	NA	mg/kg	---	---	---	---
gamma-BHC (Lindane)	NA	0.5	96	0.009	mg/kg	---	---	---	---
PCBs									
Not Detected in any samples						---	---	---	---
Herbicides									
Not Detected in any samples						---	---	---	---
Sum of Organics					mg/kg	102	0.0	5.6	65.8

Table 2-2
Summary of Soil Analytical Results for Organic Constituents
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Notes:

-  Shaded values indicate concentration exceeds the Soil Remediation Objective for Residential Ingestion and/or Inhalation pathway.
-  Shaded and *italicized* values indicate concentration exceeds the Soil Remediation Objective for the Soil Component of the Groundwater Ingestion Route (Class II Groundwater)
-  Shaded, outlined, and *italicized* values indicate concentration exceeds the Soil Remediation Objective for the Soil Component of the Groundwater Ingestion Route (Class II Grou) and the Residential Ingestion and/or Inhalation pathway.
- Underlined values indicate concentration exceeds the Construction Worker Ingestion and/or Inhalation pathway.

-- = Constituent not analyzed

+ State of Illinois Non-TACO Objectives presented for this chemical

D = Duplicate

ID = Identification

ft bgs = Feet below ground surface

J = Concentration Estimated

mg/kg = Milligram per kilogram

NA = Not available

ND = Not detected

PCB = Polychlorinated biphenyl

SVOC = Semivolatile organic compound

TACO = Tiered Approach to Corrective Action Objectives

TPH = Total petroleum hydrocarbon

U = Constituent not detected. Reporting limit is presented

VOC = Volatile organic compound

**Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 N. Kimball Ave.
Chicago, Cook County, Illinois**

Chemical Name	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component Groundwater Ingestion Exposure Route Value (Class II) ¹	Location ID	B-1		B-1		B-1		B-1	
				Field Sample ID	B-1 (0-3)		B-1 (3-6)		B-1 (6-9)		B-1 (9-12)	
				Sampling Date	8/4/2010		8/4/2010		8/4/2010		8/4/2010	
				Sampling Depth (ft bgs)	0- 3		3- 6		6- 9		9- 12	
				Units	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH
pH	NA	NA	NA	SU	10.1	NA	8.1	NA	8.3 H	NA	---	---
TOTAL METALS												
Aluminum	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Antimony	31	82	NA	mg/kg	---	---	---	---	---	---	---	---
Arsenic	13	61	NA	mg/kg	3.3	130*	8.5	120	---	---	---	---
Barium	5,500	14,000	NA	mg/kg	32	2,100*	110	2,100	---	---	---	---
Beryllium	160	410	NA	mg/kg	---	---	---	---	---	---	---	---
Cadmium	78	200	NA	mg/kg	0.52 U	4,300*	0.51 U	4,300	---	---	---	---
Calcium	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Chromium	230	690	NA	mg/kg	88	NA	38	NA	28	NA	21	NA
Cobalt	4,700	12,000	NA	mg/kg	---	---	---	---	---	---	---	---
Copper	2,900	8,200	NA	mg/kg	---	---	---	---	---	---	---	---
Iron	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Lead	400	700	NA	mg/kg	14	3,760*	30	1,420	---	---	---	---
Magnesium	325,000	730,000	NA	mg/kg	---	---	---	---	---	---	---	---
Manganese	1,600	4,100	NA	mg/kg	---	---	---	---	---	---	---	---
Mercury	10	0.1	NA	mg/kg	0.025 U	40*	0.029 U	40	---	---	---	---
Nickel	1,600	4,100	NA	mg/kg	---	---	---	---	---	---	---	---
Potassium	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Selenium	390	1,000	NA	mg/kg	1 U	1.3*	1 U	2.4	---	---	---	---
Silver	390	1,000	NA	mg/kg	1 U	NA	1 U	NA	---	---	---	---
Sodium	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Thallium	6.3	160	NA	mg/kg	---	---	---	---	---	---	---	---
Vanadium	550	1,400	NA	mg/kg	---	---	---	---	---	---	---	---
Zinc	23,000	61,000	NA	mg/kg	---	---	---	---	---	---	---	---
Cyanide	1,600	4,100	NA	mg/kg	---	---	---	---	---	---	---	---
TCLP METALS												
Arsenic, TCLP	NA	NA	0.2 (5)	mg/L	---	---	---	---	---	---	---	---
Barium, TCLP	NA	NA	2 (100)	mg/L	---	---	---	---	---	---	---	---
Cadmium, TCLP	NA	NA	0.05 (1)	mg/L	---	---	---	---	---	---	---	---
Chromium, TCLP	NA	NA	1 (5)	mg/L	0.01 U	NA	---	---	---	---	---	---
Lead, TCLP	NA	NA	0.1 (5)	mg/L	---	---	---	---	---	---	---	---

Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 N. Kimball Ave.
Chicago, Cook County, Illinois

Chemical Name	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component Groundwater Ingestion Exposure Route Value (Class ID) ¹	Location ID	B-2		B-2		B-3		B-3	
				Field Sample ID	B-2 (3-6)		B-2 (6-9)		B-3 (3-6)		B-3 (6-9)	
				Sampling Date	8/4/2010		8/4/2010		8/4/2010		8/4/2010	
				Sampling Depth (ft bgs)	3- 6		6- 9		3- 6		6- 9	
				Units	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH
pH	NA	NA	NA	SU	8.1	NA	8.7	NA	8.6	NA	8.2	NA
TOTAL METALS												
Aluminum	NA	NA	NA	mg/kg	22,000	NA	---	---	---	---	---	---
Antimony	31	82	NA	mg/kg	3.3	20	---	---	---	---	---	---
Arsenic	13	61	NA	mg/kg	11	120	9.9	130	4.8	130	9.5	120
Barium	5,500	14,000	NA	mg/kg	140	2,100	62	2,100*	84	2,100*	82	2,100
Beryllium	160	410	NA	mg/kg	1.6	1,000,000	---	---	---	---	---	---
Cadmium	78	200	NA	mg/kg	0.69	4,300	0.58 U	4,300*	0.59 U	4,300*	0.57 U	4,300
Calcium	NA	NA	NA	mg/kg	14,000	NA	---	---	---	---	---	---
Chromium	230	690	NA	mg/kg	37	NA	20	NA	23	NA	25	NA
Cobalt	4,700	12,000	NA	mg/kg	14	NA	---	---	---	---	---	---
Copper	2,900	8,200	NA	mg/kg	75	330,000	---	---	---	---	---	---
Iron	NA	NA	NA	mg/kg	30,000	NA	---	---	---	---	---	---
Lead	400	700	NA	mg/kg	180	1,420	16	1,420	14	1,420	18	1,420
Magnesium	325,000	730,000	NA	mg/kg	11,000	NA	---	---	---	---	---	---
Manganese	1,600	4,100	NA	mg/kg	330	NA	---	---	---	---	---	---
Mercury	10	0.1	NA	mg/kg	0.84	40	0.03 U	40*	0.028 U	40*	0.03 U	40
Nickel	1,600	4,100	NA	mg/kg	46	76,000	---	---	---	---	---	---
Potassium	NA	NA	NA	mg/kg	3,900	NA	---	---	---	---	---	---
Selenium	390	1,000	NA	mg/kg	3	2.4	1.2 U	1.8	1.2 U	1.8	1.1 U	2.4
Silver	390	1,000	NA	mg/kg	1.3 U	NA	1.2 U	NA	1.2 U	NA	1.1 U	NA
Sodium	NA	NA	NA	mg/kg	340	NA	---	---	---	---	---	---
Thallium	6.3	160	NA	mg/kg	1.3 U	38	---	---	---	---	---	---
Vanadium	550	1,400	NA	mg/kg	42	NA	---	---	---	---	---	---
Zinc	23,000	61,000	NA	mg/kg	110	110,000	---	---	---	---	---	---
Cyanide	1,600	4,100	NA	mg/kg	0.32 U	120	---	---	---	---	---	---
TCLP METALS												
Arsenic, TCLP	NA	NA	0.2 (5)	mg/L	---	---	---	---	---	---	---	---
Barium, TCLP	NA	NA	2 (100)	mg/L	---	---	---	---	---	---	---	---
Cadmium, TCLP	NA	NA	0.05 (1)	mg/L	---	---	---	---	---	---	---	---
Chromium, TCLP	NA	NA	1 (5)	mg/L	---	---	---	---	---	---	---	---
Lead, TCLP	NA	NA	0.1 (5)	mg/L	---	---	---	---	---	---	---	---

Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 N. Kimball Ave.
Chicago, Cook County, Illinois

Chemical Name	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component Groundwater Ingestion Exposure Route Value (Class II) ¹	Location ID	B-4		B-4		B-4		B-4	
				Field Sample ID	B-4 (0-3)		B-4 (3-6)		B-4 (6-9)		B-4 (9-12)	
				Sampling Date	8/4/2010		8/4/2010		8/4/2010		8/4/2010	
				Sampling Depth (ft bgs)	0- 3		3- 6		6- 9		9- 12	
				Units	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH
pH	NA	NA	NA	SU	10.8	NA	7.5	NA	---	---	---	---
TOTAL METALS												
Aluminum	NA	NA	NA	mg/kg	---	---	5,400	NA	---	---	---	---
Antimony	31	82	NA	mg/kg	---	---	59	20	2.3 U	20**	---	---
Arsenic	13	61	NA	mg/kg	15	130*	18	120	2.9	120**	---	---
Barium	5,500	14,000	NA	mg/kg	62	2,100*	220	1,800	---	---	---	---
Beryllium	160	410	NA	mg/kg	---	---	0.91	130,000	---	---	---	---
Cadmium	78	200	NA	mg/kg	0.55 U	4,300*	1.1	590	---	---	---	---
Calcium	NA	NA	NA	mg/kg	---	---	16,000	NA	---	---	---	---
Chromium	230	690	NA	mg/kg	24	NA	20	NA	---	---	---	---
Cobalt	4,700	12,000	NA	mg/kg	---	---	6.4	NA	---	---	---	---
Copper	2,900	8,200	NA	mg/kg	---	---	2,200	330,000	---	---	---	---
Iron	NA	NA	NA	mg/kg	---	---	86,000	NA	19,000	NA	---	---
Lead	400	700	NA	mg/kg	200	3,760*	1,100	1,420	14	1,420**	---	---
Magnesium	325,000	730,000	NA	mg/kg	---	---	4600	NA	---	---	---	---
Manganese	1,600	4,100	NA	mg/kg	---	---	630	NA	---	---	---	---
Mercury	10	0.1	NA	mg/kg	0.17	40*	0.38	32	0.03	32**	---	---
Nickel	1,600	4,100	NA	mg/kg	---	---	16	14,000	---	---	---	---
Potassium	NA	NA	NA	mg/kg	---	---	690	NA	---	---	---	---
Selenium	390	1,000	NA	mg/kg	1.1 U	1.3*	2.2	3.3	---	---	---	---
Silver	390	1,000	NA	mg/kg	1.1 U	NA	1.2	NA	---	---	---	---
Sodium	NA	NA	NA	mg/kg	---	---	460	NA	---	---	---	---
Thallium	6.3	160	NA	mg/kg	---	---	1.1 U	34	---	---	---	---
Vanadium	550	1,400	NA	mg/kg	---	---	26	NA	---	---	---	---
Zinc	23,000	61,000	NA	mg/kg	---	---	450	32,000	---	---	---	---
Cyanide	1,600	4,100	NA	mg/kg	---	---	0.28 U	120	---	---	---	---
TCLP METALS												
Arsenic, TCLP	NA	NA	0.2 (5)	mg/L	---	---	---	---	---	---	---	---
Barium, TCLP	NA	NA	2 (100)	mg/L	---	---	---	---	---	---	---	---
Cadmium, TCLP	NA	NA	0.05 (1)	mg/L	---	---	---	---	---	---	---	---
Chromium, TCLP	NA	NA	1 (5)	mg/L	---	---	---	---	---	---	---	---
Lead, TCLP	NA	NA	0.1 (5)	mg/L	---	---	---	---	---	---	---	---

Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 N. Kimball Ave.
Chicago, Cook County, Illinois

Chemical Name	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component Groundwater Ingestion Exposure Route Value (Class II) ¹	Location ID	B-5		B-5		B-5	
				Field Sample ID	B-5 (0-3)		B-5 (3-6)		B-5 (6-9)	
				Sampling Date	8/4/2010		8/4/2010		8/4/2010	
				Sampling Depth (ft bgs)	0- 3		3- 6		6- 9	
				Units	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH
pH	NA	NA	NA	SU	11.8	NA	7.8	NA	---	---
TOTAL METALS										
Aluminum	NA	NA	NA	mg/kg	2,800	NA	4,500	NA	---	---
Antimony	31	82	NA	mg/kg	17	20*	26	20	2.3 U	20**
Arsenic	13	61	NA	mg/kg	5.4	130*	17	120	4.6	120**
Barium	5,500	14,000	NA	mg/kg	51	2,100*	180	1,800	---	---
Beryllium	160	410	NA	mg/kg	0.5 U	1,000,000*	1.1	130,000	---	---
Cadmium	78	200	NA	mg/kg	0.5 U	4,300*	1.8	590	---	---
Calcium	NA	NA	NA	mg/kg	69,000	NA	27,000	NA	---	---
Chromium	230	690	NA	mg/kg	9.4	NA	18	NA	---	---
Cobalt	4,700	12,000	NA	mg/kg	3	NA	5.8	NA	---	---
Copper	2,900	8,200	NA	mg/kg	490	330,000*	580	330,000	---	---
Iron	NA	NA	NA	mg/kg	27,000	NA	25,000	NA	---	---
Lead	400	700	NA	mg/kg	160	3,760*	840	1,420	15	1,420**
Magnesium	325,000	730,000	NA	mg/kg	24,000	NA	5,900	NA	---	---
Manganese	1,600	4,100	NA	mg/kg	410	NA	260	NA	---	---
Mercury	10	0.1	NA	mg/kg	0.068	40*	0.42	32	0.031	32**
Nickel	1,600	4,100	NA	mg/kg	11	76,000*	17	14,000	---	---
Potassium	NA	NA	NA	mg/kg	390	NA	1,200	NA	---	---
Selenium	390	1,000	NA	mg/kg	1 U	1.3*	7.2	3.3	1.2 U	1.3**
Silver	390	1,000	NA	mg/kg	1 U	NA	1 U	NA	---	---
Sodium	NA	NA	NA	mg/kg	120	NA	430	NA	---	---
Thallium	6.3	160	NA	mg/kg	1 U	49*	1 U	34	---	---
Vanadium	550	1,400	NA	mg/kg	12	NA	23	NA	---	---
Zinc	23,000	61,000	NA	mg/kg	99	110,000*	320	32,000	---	---
Cyanide	1,600	4,100	NA	mg/kg	0.26 U	120*	0.3 U	120	---	---
TCLP METALS										
Arsenic, TCLP	NA	NA	0.2 (5)	mg/L	---	---	---	---	---	---
Barium, TCLP	NA	NA	2 (100)	mg/L	---	---	---	---	---	---
Cadmium, TCLP	NA	NA	0.05 (1)	mg/L	---	---	---	---	---	---
Chromium, TCLP	NA	NA	1 (5)	mg/L	---	---	---	---	---	---
Lead, TCLP	NA	NA	0.1 (5)	mg/L	---	---	---	---	---	---

**Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 N. Kimball Ave.
Chicago, Cook County, Illinois**

Chemical Name	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component Groundwater Ingestion Exposure Route Value (Class II) ¹	Location ID	B-6		B-6		B-6		B-7	
				Field Sample ID	B-6 (0-3)		B-6 (3-6)		B-6 (6-9)		B-7 (0-3)	
				Sampling Date	8/4/2010		8/4/2010		8/4/2010		8/4/2010	
				Sampling Depth (ft bgs)	0-3		3-6		6-9		0-3	
				Units	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH
pH	NA	NA	NA	SU	8.3	NA	8	NA	8.4 H	NA	8.5	NA
TOTAL METALS												
Aluminum	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Antimony	31	82	NA	mg/kg	---	---	---	---	---	---	---	---
Arsenic	13	61	NA	mg/kg	14	130	29	120	5	120	12	130
Barium	5,500	14,000	NA	mg/kg	130	2,100*	230	2,100	---	---	220	2,100*
Beryllium	160	410	NA	mg/kg	---	---	---	---	---	---	---	---
Cadmium	78	200	NA	mg/kg	1.6	4,300*	3.6	4,300	---	---	0.78	4,300*
Calcium	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Chromium	230	690	NA	mg/kg	22	NA	46	NA	24	NA	33	NA
Cobalt	4,700	12,000	NA	mg/kg	---	---	---	---	---	---	---	---
Copper	2,900	8,200	NA	mg/kg	---	---	---	---	---	---	---	---
Iron	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Lead	400	700	NA	mg/kg	910	1,420	2,800	1,420	18	1,420	180	1,420
Magnesium	325,000	730,000	NA	mg/kg	---	---	---	---	---	---	---	---
Manganese	1,600	4,100	NA	mg/kg	---	---	---	---	---	---	---	---
Mercury	10	0.1	NA	mg/kg	0.82	40*	3	40	0.03	40*	0.15	40*
Nickel	1,600	4,100	NA	mg/kg	---	---	---	---	---	---	---	---
Potassium	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Selenium	390	1,000	NA	mg/kg	1.1 U	1.8	1.3	2.4	---	---	1.1 U	1.8
Silver	390	1,000	NA	mg/kg	1.1 U	NA	2.5	NA	---	---	1.1 U	NA
Sodium	NA	NA	NA	mg/kg	---	---	---	---	---	---	---	---
Thallium	6.3	160	NA	mg/kg	---	---	---	---	---	---	---	---
Vanadium	550	1,400	NA	mg/kg	---	---	---	---	---	---	---	---
Zinc	23,000	61,000	NA	mg/kg	---	---	---	---	---	---	---	---
Cyanide	1,600	4,100	NA	mg/kg	---	---	---	---	---	---	---	---
TCLP METALS												
Arsenic, TCLP	NA	NA	0.2 (5)	mg/L	---	---	0.01 U	NA	---	---	---	---
Barium, TCLP	NA	NA	2 (100)	mg/L	---	---	0.88	NA	---	---	---	---
Cadmium, TCLP	NA	NA	0.05 (1)	mg/L	---	---	0.008	NA	---	---	---	---
Chromium, TCLP	NA	NA	1 (5)	mg/L	---	---	0.01 U	NA	---	---	---	---
Lead, TCLP	NA	NA	0.1 (5)	mg/L	---	---	0.43	NA	---	---	---	---

**Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 N. Kimball Ave.
Chicago, Cook County, Illinois**

Chemical Name	Residential Ingestion/ Inhalation Value	Construction Worker Ingestion/ Inhalation Value	Soil Component Groundwater Ingestion Exposure Route Value (Class II) ¹	Location ID	B-7		B-7		B-8	
				Field Sample ID	B-7 (3-6)		B-7 (6-9)		B-8 (0-3)	
				Sampling Date	8/4/2010		8/4/2010		8/4/2010	
				Sampling Depth (ft bgs)	3- 6		6- 9		0- 3	
				Units	Result	SRO-pH	Result	SRO-pH	Result	SRO-pH
pH	NA	NA	NA	SU	7.7	NA	---	---	8.8	NA
TOTAL METALS										
Aluminum	NA	NA	NA	mg/kg	---	---	---	---	---	---
Antimony	31	82	NA	mg/kg	---	---	---	---	---	---
Arsenic	13	61	NA	mg/kg	5.3	120	---	---	5.8	130
Barium	5,500	14,000	NA	mg/kg	76	1,800	---	---	200	2,100*
Beryllium	160	410	NA	mg/kg	---	---	---	---	---	---
Cadmium	78	200	NA	mg/kg	1.8	590	---	---	0.8	4,300*
Calcium	NA	NA	NA	mg/kg	---	---	---	---	---	---
Chromium	230	690	NA	mg/kg	8.7	NA	---	---	19	NA
Cobalt	4,700	12,000	NA	mg/kg	---	---	---	---	---	---
Copper	2,900	8,200	NA	mg/kg	---	---	---	---	---	---
Iron	NA	NA	NA	mg/kg	---	---	---	---	---	---
Lead	400	700	NA	mg/kg	36	1,420	---	---	140	3,760
Magnesium	325,000	730,000	NA	mg/kg	---	---	---	---	---	---
Manganese	1,600	4,100	NA	mg/kg	---	---	---	---	---	---
Mercury	10	0.1	NA	mg/kg	0.034 U	32	---	---	0.063	40*
Nickel	1,600	4,100	NA	mg/kg	---	---	---	---	---	---
Potassium	NA	NA	NA	mg/kg	---	---	---	---	---	---
Selenium	390	1,000	NA	mg/kg	1.7	3.3	---	---	1.1 U	1.3
Silver	390	1,000	NA	mg/kg	1.3 U	NA	---	---	1.1 U	NA
Sodium	NA	NA	NA	mg/kg	---	---	---	---	---	---
Thallium	6.3	160	NA	mg/kg	---	---	---	---	---	---
Vanadium	550	1,400	NA	mg/kg	---	---	---	---	---	---
Zinc	23,000	61,000	NA	mg/kg	---	---	---	---	---	---
Cyanide	1,600	4,100	NA	mg/kg	---	---	---	---	---	---
TCLP METALS										
Arsenic, TCLP	NA	NA	0.2 (5)	mg/L	---	---	---	---	---	---
Barium, TCLP	NA	NA	2 (100)	mg/L	---	---	---	---	---	---
Cadmium, TCLP	NA	NA	0.05 (1)	mg/L	---	---	---	---	---	---
Chromium, TCLP	NA	NA	1 (5)	mg/L	---	---	---	---	---	---
Lead, TCLP	NA	NA	0.1 (5)	mg/L	---	---	---	---	---	---

Table 2-3
Summary of Soil Analytical Results for Inorganic Constituents
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Notes:

-  Shaded values indicate concentration exceeds the Soil Remediation Objective for Residential Ingestion and/or Inhalation pathway.
-  Shaded and *italicized* values indicate concentration exceeds the Soil Remediation Objective for the Soil Component of the Groundwater Ingestion Route (Class II Groundwater) and/or the pH-specific Soil Remediation Objective
-  Shaded, outlined, and *italicized* values indicate concentration exceeds the Soil Remediation Objective for the Soil Component of the Groundwater Ingestion Route (Class II Groundwater) and the Residential Ingestion and/or Inhalation pathway.
- Underlined values indicate concentration exceeds the Construction Worker Ingestion and/or Inhalation pathway.

¹ Value in parentheses is TCLP regulatory limit

-- = Constituent not analyzed

* = Data is not available for this pH. The closest pH with data available was used as a comparison for this sample

** = pH data was not collected for this sample, the minimum Site pH of 7.5 was used to represent this sample

% = Percent

CW = Construction Worker

ID = Identification

ft bgs = Feet below ground surface

J = Concentration Estimated

mg/kg = Milligram per kilogram

mg/L = Milligram per liter

NA = Not available

SRO-pH = pH-specific soil remediation objective

SU = Standard unit

TCLP = Toxicity characteristic leaching procedure

U = Constituent not detected. Reporting limit presented.

**Table 2-4
Field Parameters Collected During Monitoring Well Purging
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Location ID	Purge Date	Well Volume (liters)	Volume Purged (liters)	Depth to Water (ft below TOC)	Specific Conductivity (µS/cm)	pH (Standard Units)	Oxidation-Reduction Potential (mV)	Temperature (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
KP-MW01	6/1/2012	6.5	0.5	11.77	1,723	6.88	125.4	11.77	4.1	>1,000
			2.5	11.85	1,725	6.81	117.8	11.79	3.8	>1,000
			5.0	11.94	1,734	6.77	104.3	11.68	3.9	>1,000
			7.5	12.03	1,731	6.79	65.3	11.84	3.9	>1,000
			10.0	12.14	1,729	6.81	28.5	11.85	3.8	548
			12.5	12.19	1,736	6.78	27.4	11.86	3.8	312
			15.0	12.30	1,733	6.91	23.4	11.79	3.8	88.2
			17.5	12.36	1,732	6.83	25.1	11.81	3.7	79.1
KP-MW02	6/1/2012	7.3	20.0	12.40	1,734	6.85	24.0	11.69	3.7	77.4
			0.5	7.13	913	6.83	144.8	12.04	3.7	221
			2.5	7.18	878	6.77	131.5	12.07	3.6	217
			5.0	7.17	867	6.81	128.0	12.11	3.6	188
			7.5	7.20	854	6.79	88.4	12.13	3.5	89.3
			10.0	7.20	855	6.80	86.3	12.14	3.6	83.2
			12.5	7.21	857	6.81	85.4	12.13	3.6	34.2
			15.0	7.20	849	6.80	79.0	12.13	3.5	28.1
KP-MW03	6/1/2012	7.0	17.5	7.20	855	6.77	81.2	12.13	3.5	26.5
			0.5	6.57	1760	6.67	476.0	11.84	7.9	57.3
			2.5	6.60	1763	6.71	135.8	11.72	5.2	61.6
			5.0	6.62	1765	6.80	108.6	11.70	3.4	38.5
			7.5	6.65	1770	6.83	89.5	11.67	3.4	39.2
			10.0	6.70	1768	6.80	55.2	11.68	3.5	35.7
			12.5	6.71	1770	6.83	32.8	11.68	3.4	11.5
			15.0	6.71	1773	6.83	30.6	11.68	3.5	26.1
			17.5	6.71	1774	6.83	33.8	11.68	3.3	24.2

Notes:

° = Degrees

µS/cm = Microsiemens per centimeter

C = Celsius

ID = Identification

mg/L = Milligrams per liter

mV = Millivolts

pH = Hydrogen ion concentration

NTU = Nephelometric turbidity units

TOC = Top of casing

**Table 2-5
Summary of Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Class II Groundwater Remediation Objective	Location ID	TMW-1/ KP-MW01	TMW-1/ KP-MW01	TMW-1/ KP-MW01	TMW-2/ KP-MW02	TMW-2/ KP-MW02	TMW-2/ KP-MW02	TMW-3/ KP-MW03	TMW-3/ KP-MW03	TMW-3/ KP-MW03	TMW-3/ KP-MW03	TMW-3/ KP-MW03
		Field Sample ID	TMW-1	TMW-1	KP-MW01- 060112	TMW-2	TMW-2	KP-MW02- 060112	TMW-3	TMW-3	TMW-3	KP-MW03- 060112	KP-MW03- 060112D
		Sample Date	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
		Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19	6-16	6-16	6-16	8-18	8-18
		Units											
VOCs													
1,1,2-Trichloroethane	0.05	mg/L	0.0093	---	0.005 U	2.5 U	---	0.025 U	0.005 U	---	---	0.005 U	0.005 U
1,1-Dichloroethene	0.035	mg/L	0.005 U	---	0.005 U	2.5 U	---	0.02 J	0.005 U	---	---	0.005 U	0.005 U
1,2,3-Trichlorobenzene	0.028		---	---	0.005 U	---	---	0.025 U	---	---	---	0.005 U	0.01
Acetone	6.3	mg/L	0.037	---	0.1 U	10 U	---	0.5 U	0.02 U	---	---	0.1 U	0.1 U
Chloroform	0.001	mg/L	0.64	---	0.0098	2.5 U	---	0.025 U	0.005 U	---	---	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.2	mg/L	0.9	---	0.032	120	---	2	0.005 U	---	---	0.005 U	0.005 U
Methylene chloride	0.05	mg/L	0.0092	---	0.005 U	2.5 U	---	0.025 U	0.005 U	---	---	0.005 U	0.005 U
Toluene	2.5	mg/L	0.015	---	0.005 U	2.5 U	---	0.025 U	0.005 U	---	---	0.005 U	0.005 U
trans-1,2-Dichloroethene	0.5	mg/L	0.045	---	0.005 U	2.5 U	---	0.038	0.005 U	---	---	0.005 U	0.005 U
Trichloroethene	0.025	mg/L	4	---	0.22	270	---	12.4	0.0056	---	---	0.0042 J	0.0038 J
Vinyl chloride	0.01	mg/L	0.12	---	0.022	22	---	0.34	0.002 U	---	---	0.002 U	0.002 U
SVOCS													
Benzo(a)anthracene	0.00065	mg/L	---	0.0001 U	0.00011 U	0.00011	---	0.0001 U	0.0001 U	---	---	0.0001 U	0.0001 U
Bis(2-ethylhexyl)phthalate	0.06	mg/L	---	---	0.0048 J	0.005 U	---	0.0052 U	---	---	---	0.0052 U	0.0052 U
Carbazole	NA	mg/L	---	---	---	0.00022	---	---	---	---	---	---	---
Chrysene	0.0075	mg/L	---	0.0001 U	0.00054 U	0.00031	---	0.00052 U	0.0001 U	---	---	0.00052 U	0.00052 U
Pyridine+	0.007	mg/L	---	---	---	0.014	---	---	---	---	---	---	---
Pesticides													
Heptachlor	0.002	mg/L	---	---	0.000087	---	0.00005 U	0.000054 U	---	0.00005 U	---	0.000055 U	0.000054 U
PCBs													
Not Detected in any samples			---	---	---	---	ND	---	---	ND	---	---	---
Herbicides													
Not Detected in any samples			---	---	---	---	---	---	---	---	ND	---	---
Total Metals													
Aluminum	NA	mg/L	0.47	---	2.53	0.37	---	1.31	---	---	---	1 U	1 U
Antimony	0.024	mg/L	0.006 U	---	0.006 U	0.0064	---	0.003 J	---	---	---	0.006 U	0.006 U
Barium	2	mg/L	0.073	---	0.0907 J	0.093	---	0.096 J	0.098	---	---	0.056 J	0.047 J
Calcium	NA	mg/L	160	---	208	190	---	166	---	---	---	211	215
Chromium	1	mg/L	0.004 U	---	0.0084 J	0.004 U	---	0.01 U	0.004 U	---	---	0.01 U	0.01 U
Copper	0.65	mg/L	0.01 U	---	0.02 U	0.01 U	---	0.0232	---	---	---	0.02 U	0.02 U
Iron	5	mg/L	1.4	---	10.9	1.5	---	6.7	---	---	---	2.03	1.91
Lead	0.1	mg/L	0.0032	---	0.01 U	0.0025	---	0.01 U	0.0025	---	---	0.01 U	0.01 U
Magnesium	NA	mg/L	61	---	140	110	---	98.4	---	---	---	160	156
Manganese	10	mg/L	0.087	---	0.835	0.8	---	0.192	---	---	---	1	1.03
Nickel	2	mg/L	0.0055	---	0.05 U	0.004 U	---	0.05 U	---	---	---	0.05 U	0.05 U

**Table 2-5
Summary of Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Class II Groundwater Remediation Objective	Location ID	TMW-1/ KP-MW01	TMW-1/ KP-MW01	TMW-1/ KP-MW01	TMW-2/ KP-MW02	TMW-2/ KP-MW02	TMW-2/ KP-MW02	TMW-3/ KP-MW03	TMW-3/ KP-MW03	TMW-3/ KP-MW03	TMW-3/ KP-MW03	TMW-3/ KP-MW03
		Field Sample ID	TMW-1	TMW-1	KP-MW01- 060112	TMW-2	TMW-2	KP-MW02- 060112	TMW-3	TMW-3	TMW-3	KP-MW03- 060112	KP-MW03- 060112D
		Sample Date	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
		Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19	6-16	6-16	6-16	8-18	8-18
		Units											
Potassium	NA	mg/L	14	---	6.8	14	---	9.42	---	---	---	1.8	1.57
Sodium	NA	mg/L	86	---	39.2	290	---	129	---	---	---	40.6	36.9
Zinc	10	mg/L	0.02 U	---	0.031 J	0.02 U	---	0.05 U	---	---	---	0.0208 J	0.0506

Notes:

Shaded values indicate concentration exceeds the Groundwater Remediation Objective (Class II) for the Groundwater Component of the Groundwater Ingestion Route.

+ State of Illinois Non-TACO Objectives presented for this chemical

-- = Constituent not analyzed

D = Duplicate

ft bgs - Feet below ground surface

ID = Identification

J = Concentration Estimated

mg/L = Milligram per liter

NA = Not available

ND = Not detected

PCB = Polychlorinated biphenyl

SVOC = Semivolatile organic compound

TACO = Tiered Approach to Corrective Action Objectives

U = Constituent not detected. Reporting limit presented.

VOC = Volatile organic compound

Table 2-6
Groundwater Elevations
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Monitoring Well ID	Depth to Groundwater			Reference Elevation Ground Surface (feet CCD)	Reference Elevation Top of Casing (feet CCD)	Groundwater Elevation		
	6/1/2012	6/21/2012	7/12/2012			6/1/2012	6/21/2012	7/12/2012
	(feet)					(feet CCD)	(feet CCD)	(feet CCD)
KP-MW01	16.77	9.36	7.42	20.92	20.41	3.64	11.05	12.99
KP-MW02	7.13	3.54	3.75	21.95	21.38	14.25	17.84	17.63
KP-MW03	6.57	2.09	2.34	21.83	21.21	14.64	19.12	18.87

Notes:

CCD = Chicago City Datum

ID = Identification

PVC = Polyvinyl chloride

Reference elevation is the top of the inner (PVC) well casing

Table 2-7
Hydraulic Conductivity Testing Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Monitoring Well ID	Falling Head Test (cm/sec)	Rising Head Test (cm/sec)	Mean (cm/sec)
KP-MW01	---	---	---
KP-MW02	3.7E-07	8.4E-07	6.1E-07
KP-MW03	2.8E-04	2.9E-04	2.9E-04
Geometric Mean (cm/sec)	1.3E-05		
Geometric Mean (ft/min)	2.5E-05		
Geometric Mean (ft/day)	3.6E-02		

Notes:

--- = Data not useable

cm/sec = Centimeters per second

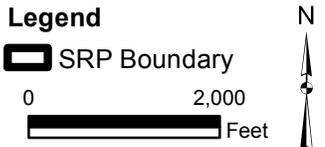
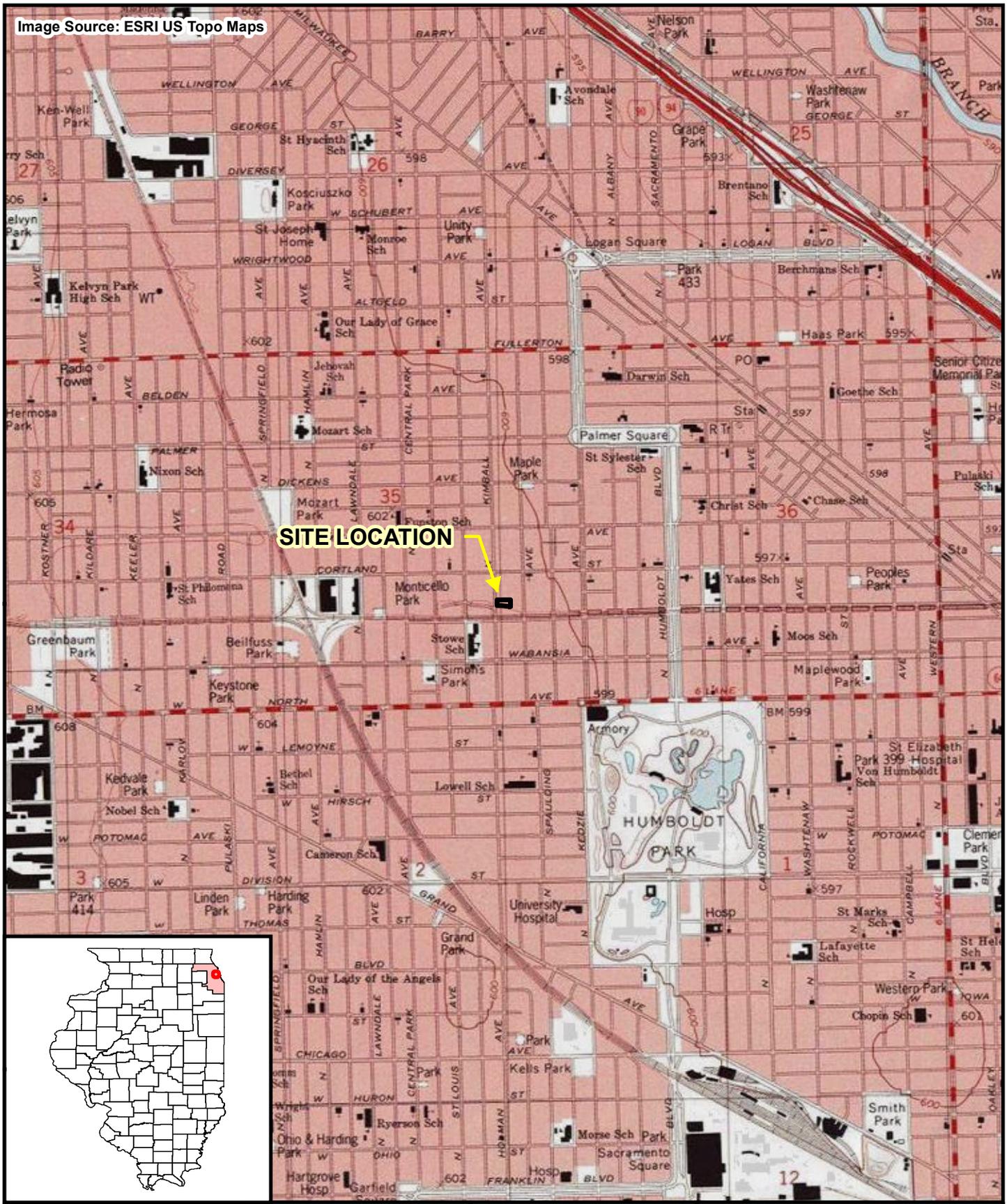
ID = Identification

ft/day = Feet per day

ft/min = Feet per minute

FIGURES

Image Source: ESRI US Topo Maps

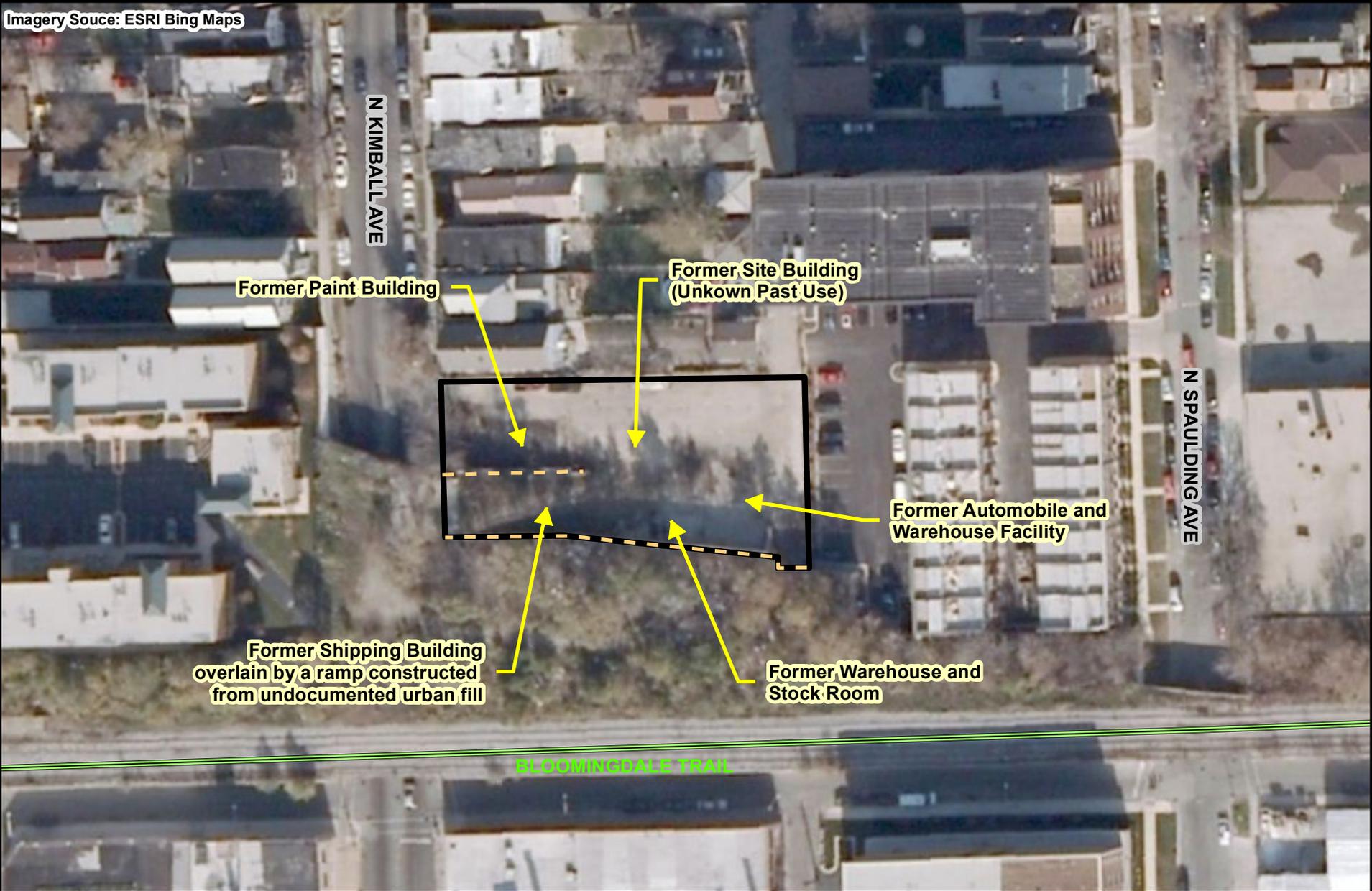


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 Contract No: EP-S5-06-04
 TDD: S05-0008-1110-024
 DCN: 1657-2A-AWJZ

Prepared By:
WESTON SOLUTIONS, INC
 750 E. Bunker Court
 Suite 500
 Vernon Hills, Illinois 60061

Figure 1-1
 Site Location Map
 Kimball Avenue Park
 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois

Imagery Source: ESRI Bing Maps



Legend

Bloomingdale Trail

Concrete Retaining Wall

SRP Boundary

0 75 Feet



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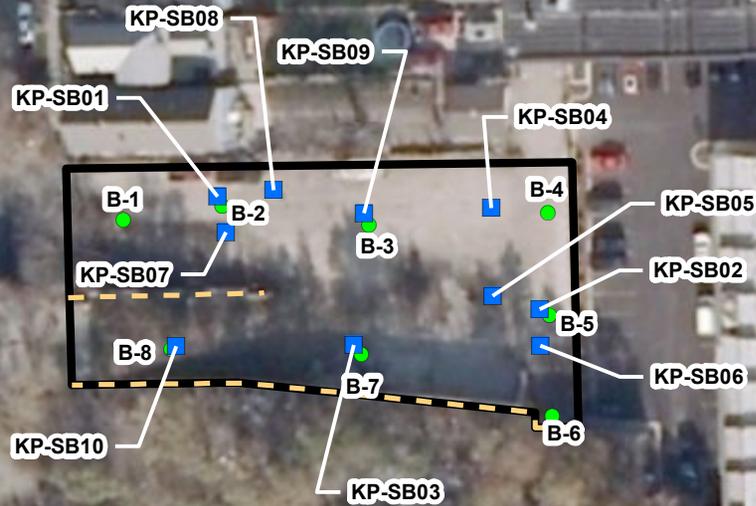
Figure 1-2

Site Features Map
Kimball Avenue Park
1807-15 N. Kimball Avenue
Chicago, Cook County, Illinois

Imagery Source: ESRI Bing Maps

N KIMBALL AVE

N SPAULDING AVE



BLOOMINGDALE TRAIL

Legend

- 2012 Sampling Locations
- 2010 Sampling Locations
- Concrete Retaining Wall
- Bloomingdale Trail
- SRP Boundary



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Figure 2-1
Soil Sampling Location Map
Kimball Avenue Park
1807-15 N. Kimball Avenue
Chicago, Cook County, Illinois

Imagery Source: ESRI Bing Maps

FILE: D:\Bloomingdale_Trails\mxd\Kimball_Report\F2-2_Cross_Sections.mxd 7/25/2012 2:28:26 PM wojdakon



Legend

- 2012 Sampling Locations
- 2010 Sampling Locations
- Concrete Retaining Wall
- Bloomingdale Trail
- Cross Sections
- SRP Boundary



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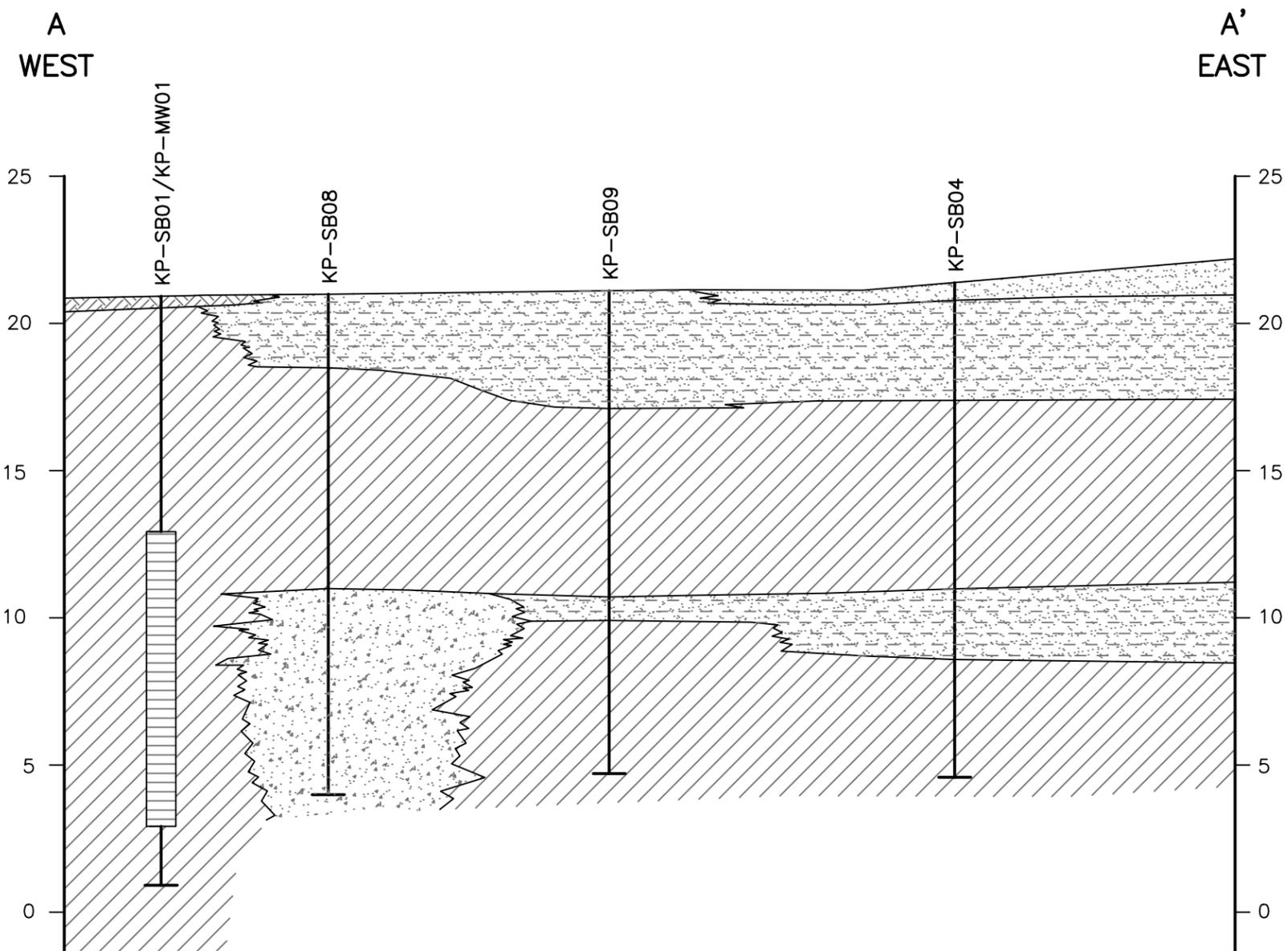
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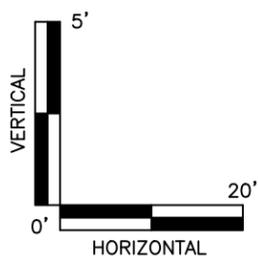
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Suite 500
Vernon Hills, Illinois 60061

Figure 2-2
Cross Section Location Map
Kimball Avenue Park
1807-15 N. Kimball Avenue
Chicago, Cook County, Illinois



LEGEND

-  FILL
-  SILTY SAND
-  SAND
-  CLAY
-  GRAVEL
-  SILT
-  MONITORING WELL SCREENED INTERVAL
-  BORING



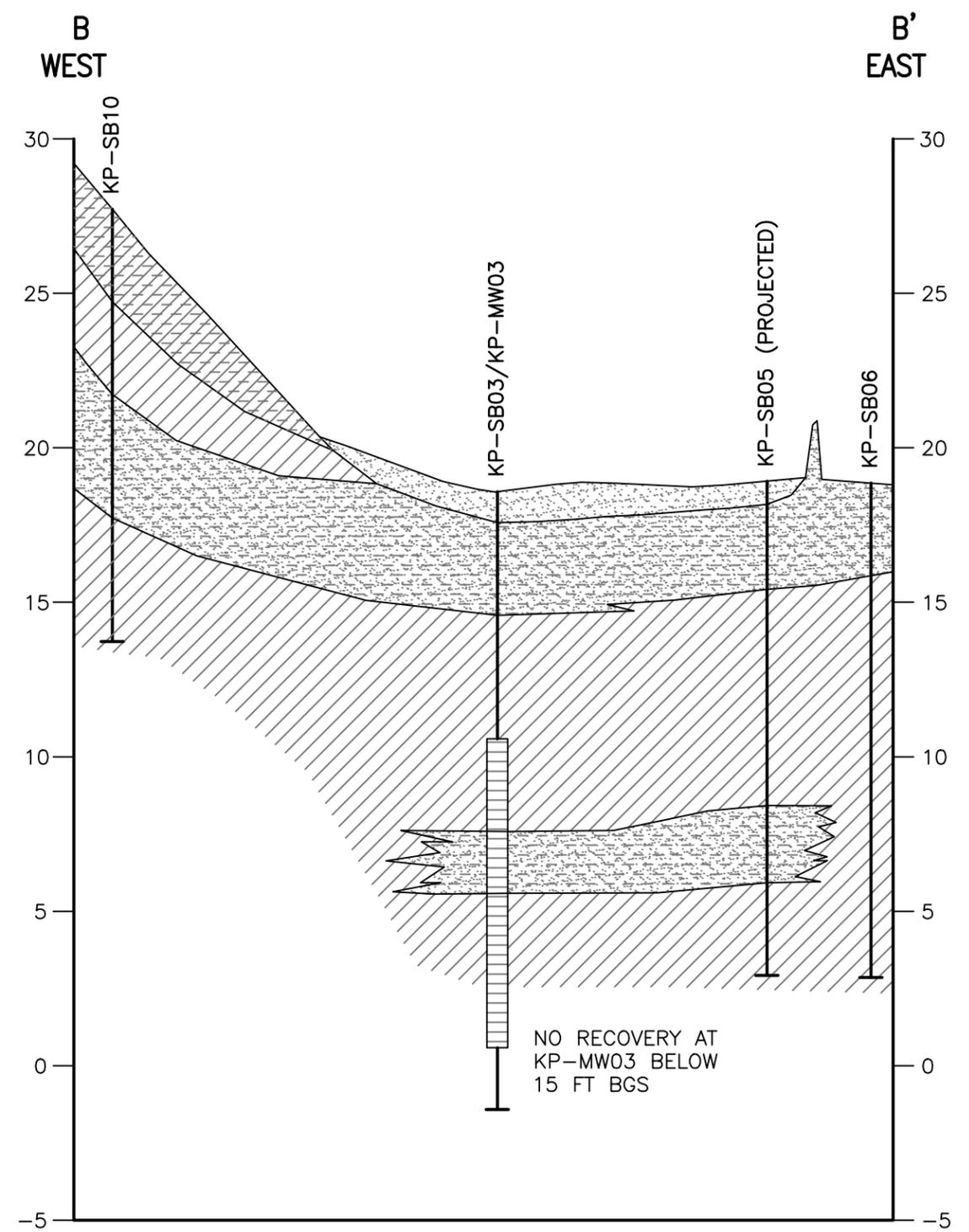
NOTE:
VERTICAL SCALE IS REFERENCED TO THE CHICAGO CITY DATUM (CCD).

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Figure 2-3
Geologic Cross Section A-A'
Kimball Avenue Park
1807-15 N. Kimball Avenue
Chicago, Cook County, Illinois

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LEGEND

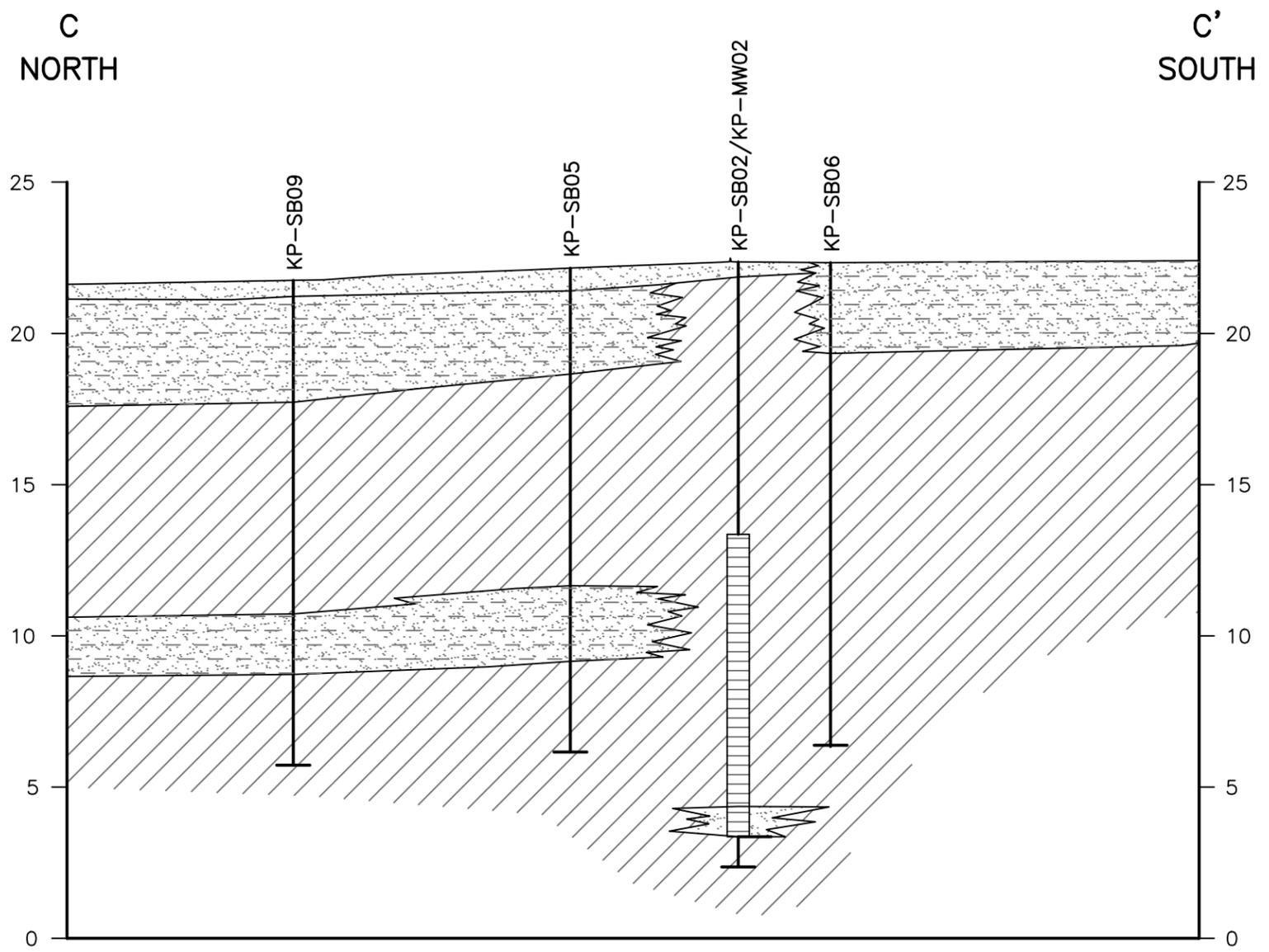
	FILL		MONITORING WELL
	SILT		SCREENED INTERVAL
	SILTY CLAY		BORING
	CLAY		BGS BELOW GROUND SURFACE
	SAND		
	SILTY SAND		

NOTE:
VERTICAL SCALE IS REFERENCED TO THE CHICAGO CITY DATUM (CCD).

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TDD: S05-0008-1110-024
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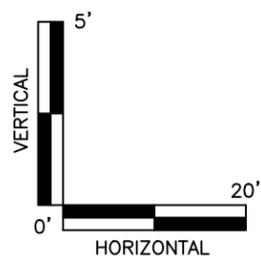
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Figure 2-4
Geologic Cross Section B-B'
Kimball Avenue Park
1807-15 N. Kimball Avenue
Chicago, Cook County, Illinois



LEGEND

- | | | | |
|---|------------|---|--------------------------------------|
|  | FILL |  | MONITORING WELL
SCREENED INTERVAL |
|  | SILT |  | BORING |
|  | SILTY CLAY | | |
|  | CLAY | | |
|  | SAND | | |
|  | SILTY SAND | | |



NOTE:
VERTICAL SCALE IS REFERENCED TO THE
CHICAGO CITY DATUM (CCD).

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Vernon Hills, Illinois 60061

Figure 2-5
Geologic Cross Section C-C'
Kimball Avenue Park
1807-15 N. Kimball Avenue
Chicago, Cook County, Illinois

Imagery Source: ESRI Bing Maps

N KIMBALL AVE

N SPAULDING AVE

KP-MW01

KP-MW02

KP-MW03

BLOOMINGDALE TRAIL

Legend

-  Monitoring Well Locations
-  Concrete Retaining Wall
-  Bloomingdale Trail
-  SRP Boundary

0 75
 Feet



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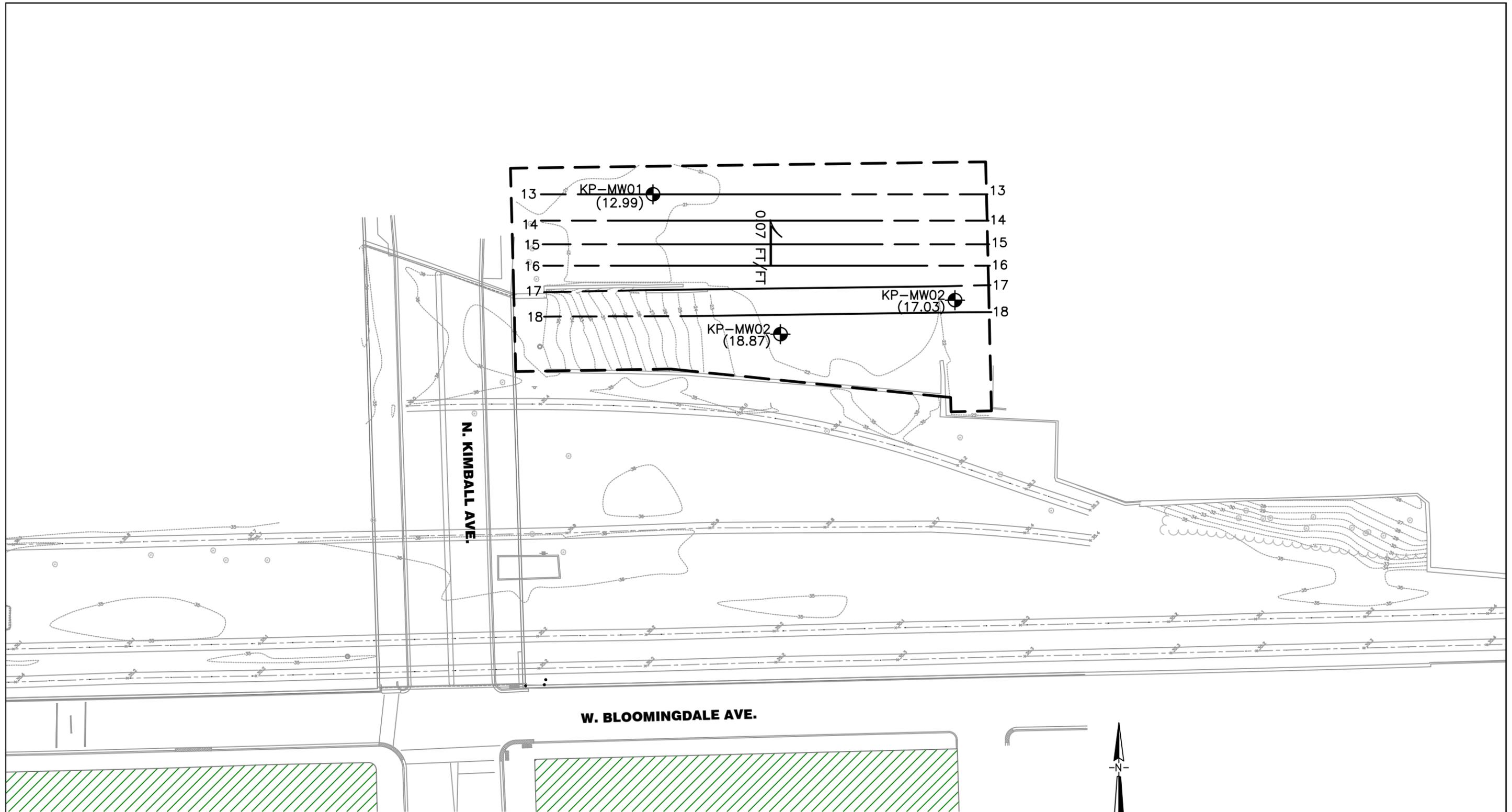


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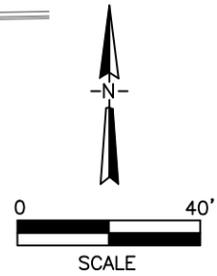
Figure 2-6
 Monitoring Well Location Map
 Kimball Avenue Park
 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois

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LEGEND

-  MONITORING WELL LOCATION
-  SRP SITE BOUNDARY
-  POTENTIOMETRIC SURFACE CONTOUR



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Figure 2-7
 Potentiometric Surface Map
 Kimball Avenue Park
 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois

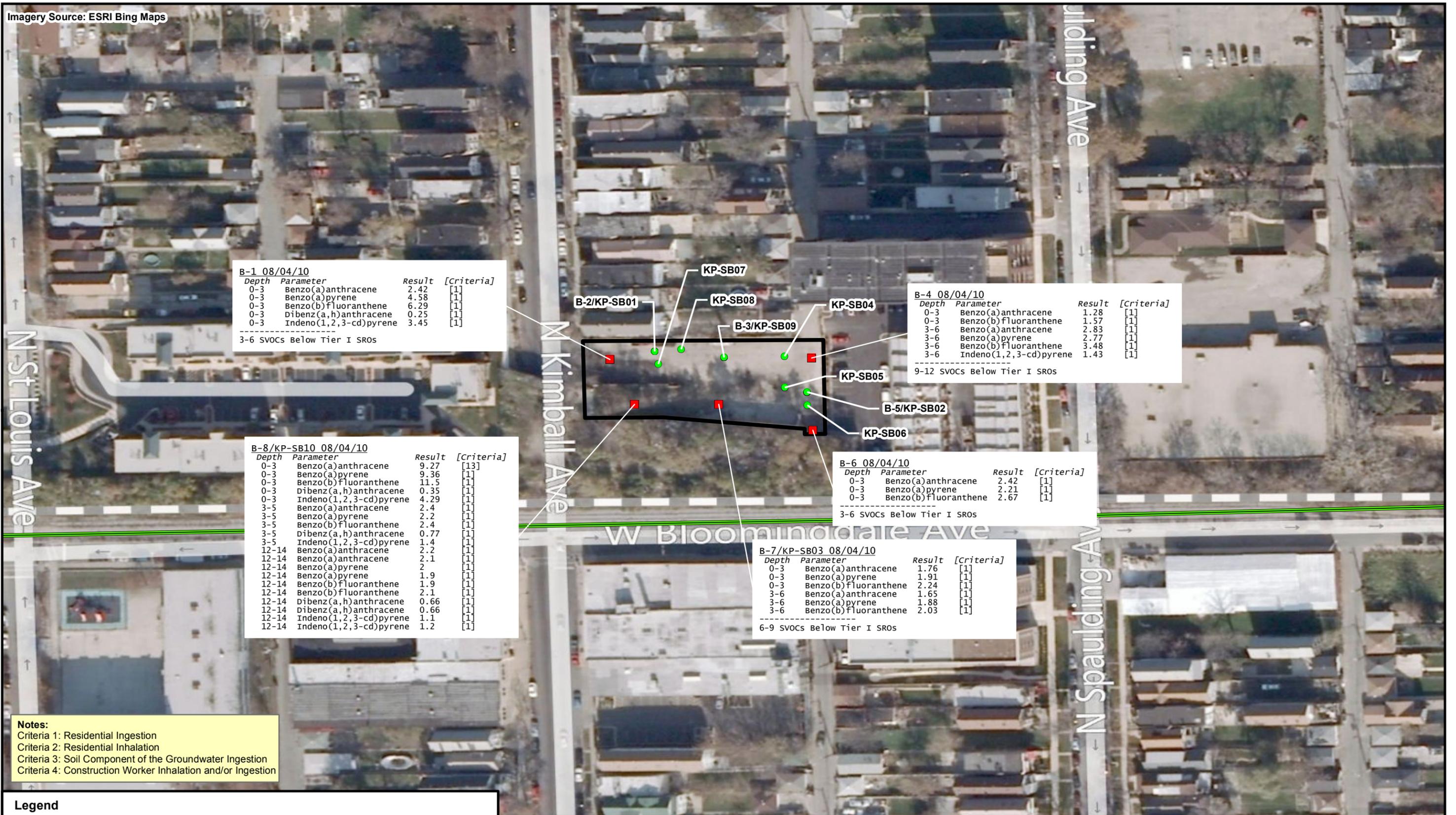


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 DCN: 1657-2A-AWFS



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Figure 3-1
 Soil Analytical Results Exceeding
 Tier I Soil Remediation Objectives - VOCs
 Kimball Avenue Park - 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois



B-1 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Benzo(a)anthracene	2.42	[1]
0-3	Benzo(a)pyrene	4.58	[1]
0-3	Benzo(b)fluoranthene	6.29	[1]
0-3	Dibenz(a,h)anthracene	0.25	[1]
0-3	Indeno(1,2,3-cd)pyrene	3.45	[1]

3-6 SVOCs Below Tier I SROs

B-4 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Benzo(a)anthracene	1.28	[1]
0-3	Benzo(b)fluoranthene	1.57	[1]
3-6	Benzo(a)anthracene	2.83	[1]
3-6	Benzo(a)pyrene	2.77	[1]
3-6	Benzo(b)fluoranthene	3.48	[1]
3-6	Indeno(1,2,3-cd)pyrene	1.43	[1]

9-12 SVOCs Below Tier I SROs

B-8/KP-SB10 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Benzo(a)anthracene	9.27	[13]
0-3	Benzo(a)pyrene	9.36	[1]
0-3	Benzo(b)fluoranthene	11.5	[1]
0-3	Dibenz(a,h)anthracene	0.35	[1]
0-3	Indeno(1,2,3-cd)pyrene	4.29	[1]
3-5	Benzo(a)anthracene	2.4	[1]
3-5	Benzo(a)pyrene	2.2	[1]
3-5	Benzo(b)fluoranthene	2.4	[1]
3-5	Dibenz(a,h)anthracene	0.77	[1]
3-5	Indeno(1,2,3-cd)pyrene	1.4	[1]
12-14	Benzo(a)anthracene	2.2	[1]
12-14	Benzo(a)anthracene	2.1	[1]
12-14	Benzo(a)pyrene	2	[1]
12-14	Benzo(a)pyrene	1.9	[1]
12-14	Benzo(b)fluoranthene	1.9	[1]
12-14	Benzo(b)fluoranthene	2.1	[1]
12-14	Dibenz(a,h)anthracene	0.66	[1]
12-14	Dibenz(a,h)anthracene	0.66	[1]
12-14	Indeno(1,2,3-cd)pyrene	1.1	[1]
12-14	Indeno(1,2,3-cd)pyrene	1.2	[1]

B-6 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Benzo(a)anthracene	2.42	[1]
0-3	Benzo(a)pyrene	2.21	[1]
0-3	Benzo(b)fluoranthene	2.67	[1]

3-6 SVOCs Below Tier I SROs

B-7/KP-SB03 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Benzo(a)anthracene	1.76	[1]
0-3	Benzo(a)pyrene	1.91	[1]
0-3	Benzo(b)fluoranthene	2.24	[1]
3-6	Benzo(a)anthracene	1.65	[1]
3-6	Benzo(a)pyrene	1.88	[1]
3-6	Benzo(b)fluoranthene	2.03	[1]

6-9 SVOCs Below Tier I SROs

Notes:
 Criteria 1: Residential Ingestion
 Criteria 2: Residential Inhalation
 Criteria 3: Soil Component of the Groundwater Ingestion
 Criteria 4: Construction Worker Inhalation and/or Ingestion

Legend

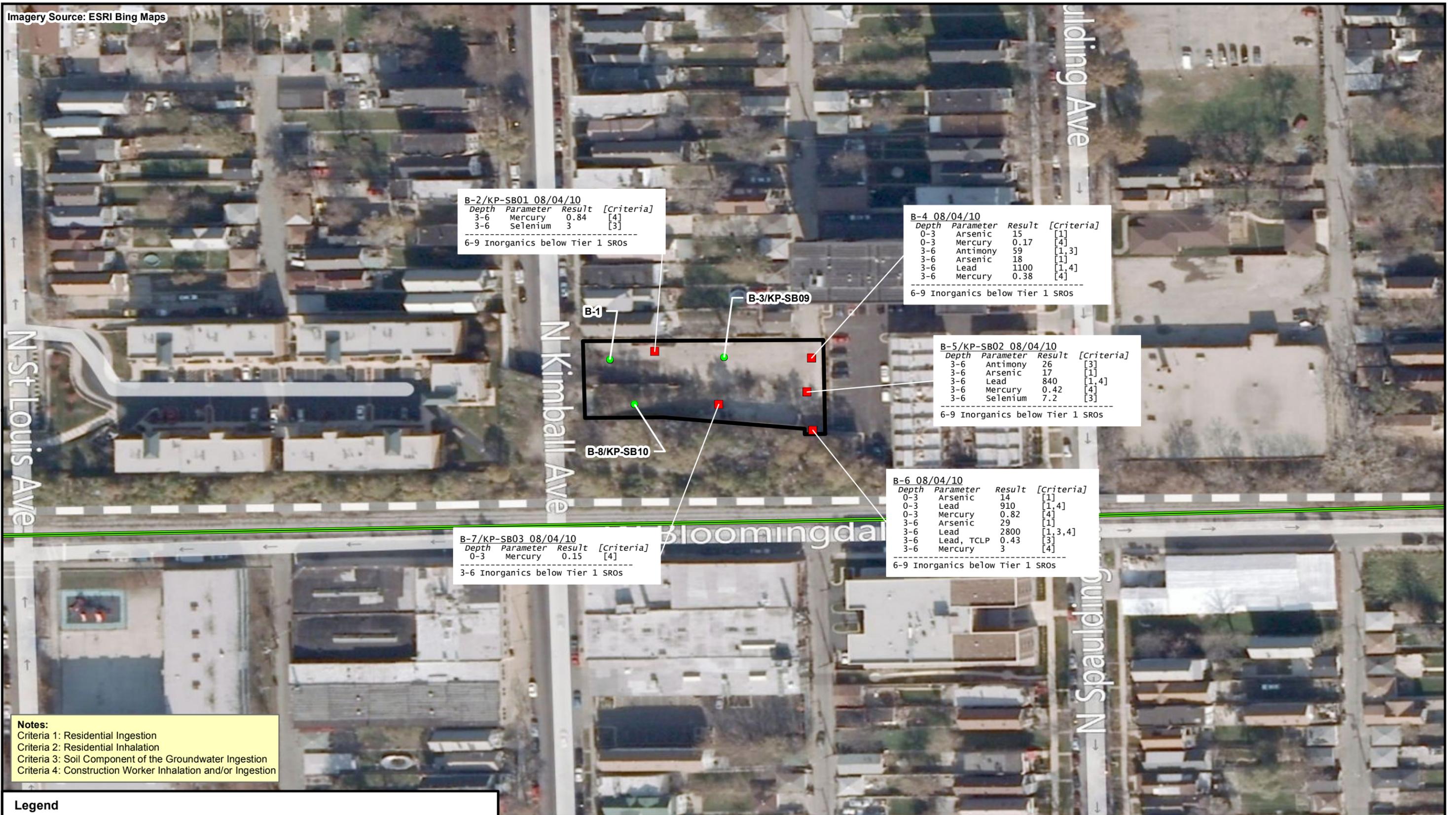
- At Least One Exceedance
- No Exceedances
- Bloomingtondale Trail
- ▭ Property Boundary

0 100 Feet

Prepared For:
US EPA Region V
 Contract No.: EP-S5-06-04
 TDD: S05-0008-1110-024
 DCN: 1657-2A-AWFS

Prepared By:
WESTON SOLUTIONS, INC.
 750 E. Bunker Court, Suite 500
 Vernon Hills, Illinois 60061

Figure 3-2
 Soil Analytical Results Exceeding
 Tier I Soil Remediation Objectives - SVOCs
 Kimball Avenue Park - 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois



B-2/KP-SB01 08/04/10

Depth	Parameter	Result	[Criteria]
3-6	Mercury	0.84	[4]
3-6	Selenium	3	[3]

6-9 Inorganics below Tier 1 SROs

B-4 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Arsenic	15	[1]
0-3	Mercury	0.17	[4]
3-6	Antimony	59	[1,3]
3-6	Arsenic	18	[1]
3-6	Lead	1100	[1,4]
3-6	Mercury	0.38	[4]

6-9 Inorganics below Tier 1 SROs

B-5/KP-SB02 08/04/10

Depth	Parameter	Result	[Criteria]
3-6	Antimony	26	[3]
3-6	Arsenic	17	[1]
3-6	Lead	840	[1,4]
3-6	Mercury	0.42	[4]
3-6	Selenium	7.2	[3]

6-9 Inorganics below Tier 1 SROs

B-6 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Arsenic	14	[1]
0-3	Lead	910	[1,4]
0-3	Mercury	0.82	[4]
3-6	Arsenic	29	[1]
3-6	Lead	2800	[1,3,4]
3-6	Lead, TCLP	0.43	[3]
3-6	Mercury	3	[4]

6-9 Inorganics below Tier 1 SROs

B-7/KP-SB03 08/04/10

Depth	Parameter	Result	[Criteria]
0-3	Mercury	0.15	[4]

3-6 Inorganics below Tier 1 SROs

Notes:
 Criteria 1: Residential Ingestion
 Criteria 2: Residential Inhalation
 Criteria 3: Soil Component of the Groundwater Ingestion
 Criteria 4: Construction Worker Inhalation and/or Ingestion

Legend

- At Least One Exceedance
- No Exceedances
- Bloomingdale Trail
- Property Boundary

0 100
 Feet

N

Prepared For:
US EPA Region V
 Contract No.: EP-S5-06-04
 TDD: S05-0008-1110-024
 DCN: 1657-2A-AWFS

Prepared By:
WESTON SOLUTIONS, INC.
 750 E. Bunker Court, Suite 500
 Vernon Hills, Illinois 60061

Figure 3-3
 Soil Analytical Results Exceeding
 Tier I Soil Remediation Objectives - Inorganics
 Kimball Avenue Park - 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois

TMW-1/KP-MW01			
Date	Parameter	Result	[Criteria]
08/10/10	Chloroform	0.64	[0.001]
08/10/10	cis-1,2-Dichloroethene	0.9	[0.2]
08/10/10	Trichloroethene	4	[0.025]
08/10/10	vinyl chloride	0.12	[0.01]
06/01/12	chloroform	0.0098	[0.001]
06/01/12	Iron	10.9	[5]
06/01/12	Trichloroethene	0.22	[0.025]
06/01/12	vinyl chloride	0.022	[0.01]

TMW-2/KP-MW02			
Date	Parameter	Result	[Criteria]
08/10/10	cis-1,2-Dichloroethene	120	[0.2]
08/10/10	Trichloroethene	270	[0.025]
08/10/10	vinyl chloride	22	[0.01]
06/01/12	cis-1,2-Dichloroethene	2	[0.2]
06/01/12	Iron	6.7	[5]
06/01/12	Trichloroethene	12.4	[0.025]
06/01/12	vinyl chloride	0.34	[0.01]



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Legend

- At Least One Exceedance
- No Exceedances
- Bloomingdale Trail
- Property Boundary

0 100

Feet

N



Prepared For:
US EPA Region V
 Contract No.: EP-S5-06-04
 TDD: S05-0008-1110-024
 DCN: 1657-2A-AWFS



Prepared By:
WESTON SOLUTIONS, INC.
 750 E. Bunker Court, Suite 500
 Vernon Hills, Illinois 60061

Figure 3-4
 Groundwater Analytical Results
 Exceeding Tier 1 Remediation Objectives
 Kimball Avenue Park - 1807-15 N. Kimball Avenue
 Chicago, Cook County, Illinois

APPENDIX A
PREVIOUSLY PREPARED ENVIRONMENTAL REPORTS
(Presented In CD Copy Only)

APPENDIX B
PROPERTY LEGAL DESCRIPTION

① The North 25 feet of the South 146.85 feet of the East 25 feet of the West 197.55 feet of that part of Block 10 lying North of the right of way of the Chicago, Milwaukee and St. Paul Railroad in Simon's Subdivision of the Southeast 1/4 of Section 35, Township 40 North, Range 13, East of the Third Principal Meridian, in Cook County, Illinois.

② That part of Block 10 in E. Simon's Subdivision of the Southeast 1/4 of Section 35, Township 40 North, Range 13, East of the Third Principal Meridian, described as follows: commencing at a point on the North & South center line of said Block which is 23.47 feet North of the North line of the right of way of the Chicago Milwaukee and St. Paul Railroad Co., thence Northwesterly a distance of 10.68 feet to point 10 feet west of said North & South center line & 27.11 feet North of said North right of way line, to the point of beginning of this parcel of land; thence North 0 degrees 02 minutes 17 seconds west along a line 10.00 feet west of and parallel to said north and south center line, a distance of 40.74 feet to a point 25.00 feet South of the North line of the South 108.00 feet of said Block 10; thence North 89 degrees 28 minutes 00 seconds west, a distance of 5.00 feet; thence North 0 degrees 02 minutes 17 seconds west a distance of 25.25 feet to a point on a line 486.00 feet South of and parallel to the North line of said Block 10 and 15.00 feet west of the North and South center line of said Block 10; thence North 89 degrees 36 minutes 00 seconds west along the South line of the north 486 feet of said Block 10, a distance of 172.53 feet to its intersection with the west line of said Block 10; thence South 0 degrees 04 minutes 33 seconds East along said west line, 37.87 feet; thence South 87 degrees 01 minutes 33 seconds east, a distance of 50.31 feet; thence Easterly on a curve tangent to the last described course and concave southerly with a radius of 355.16 feet a chord distance of 66.01 feet (said chord having a bearing of south 81 degrees 41 minutes 35 seconds east) to a point of compound curvature; thence easterly on a curve concave southerly, with a radius of 1006.84 feet, a chord distance of 64.23 feet (said chord having a bearing of south 74 degrees 31 minutes 58 seconds East) to the point of beginning, all in Cook County, Illinois, commonly known as 1800-14 N. Spaulding/ 1807-11 N. Kimball, Chicago, Illinois., East of the Third Principal Meridian, in Cook County, Illinois, commonly known as 1800-14 N. Spaulding/1807-11 N. Kimball, Chicago, Illinois.

32	-026
33	-044

CORTLAND ST

43.76	56.24	77
45	56.24	-049
45	56.24	CONDO
44	56.24	-002
43	56.24	-003
42	56.24	-004
41	56.24	-005
40	56.24	-006
39	56.24	-007
38	56.24	-008
37	56.24	-009
36	56.24	-010
35	56.24	-011
34	56.24	-012
33	56.24	-013
32	56.24	-014
31	56.24	-015
30	56.24	-016
29	56.24	-017
28	56.24	-018
27	56.24	-019
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23	56.24	-023
22	56.24	-024
21	56.24	-025
20	56.24	-026
19	56.24	-027
18	56.24	-028
17	56.24	-029
16	56.24	-030
15	56.24	-031
14	56.24	-032
13	56.24	-033
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10	56.24	-036
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5	56.24	-041
4	56.24	-042
3	56.24	-043
2	56.24	-044
1	56.24	-045

31	-038	CONDO
32	-044	

125	177	52
46	-037	-038
45	-037	-038
44	-037	-038
43	-037	-038
42	-037	-038
41	-037	-038
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20	-037	-038

29	-039	
30	-038	CONDO

131	177	52
123	-020	-021
122	-020	-021
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20	-020	-021

29	-039	
30	-038	CONDO

131	177	52
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22	-020	-021
21	-020	-021
20	-020	-021

SAWYER-AVE

SPAULDING-AVE

KIMBALL-AVE

BLOOMINGDALE AVE

CM ST.P. & P.R.R

500

410

409

2

CONDO

CONDO

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22	-002
23	-003

1	-020
2	-021
3	-022

51	-001
50	-053
49	-053

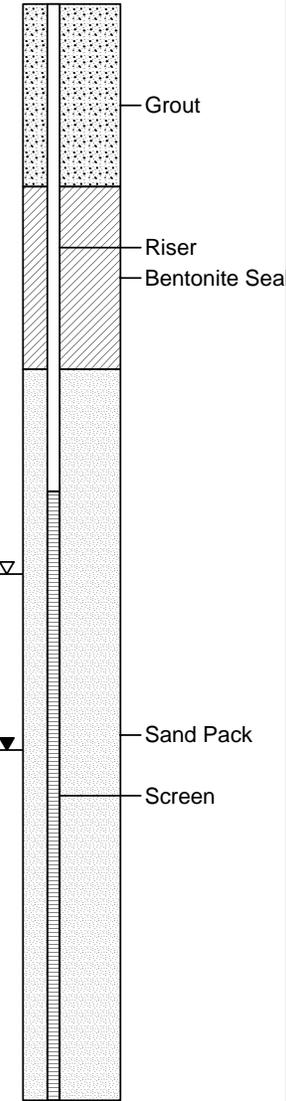
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3	-025

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50	-002
51	-002

APPENDIX C
SOIL BORING LOGS/MONITORING WELL
CONSTRUCTION DIAGRAMS

U.S. EPA Region V Contract: EP-S5-06-04 Kimball Avenue Park - 15 N. Kimball Ave. Chicago, Cook County, Illinois	Date : 05-29-12 Sample Date : 05-29-12 Collector : WESTON Drilling Company : Cabeno Environmental Drill Rig Type : Geoprobe	Completion Depth : 20' WESTON Geologist : J. Colomb
--	---	--

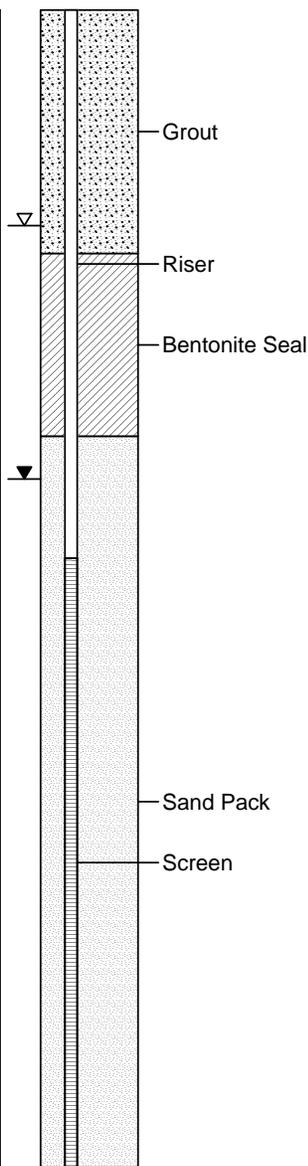
Depth (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	TPH DRO, TPH GRO, TCL VOCs, % Moisture			
			DESCRIPTION				
0		CF	CONCRETE FILL				
1		CL	CLAY, light brown, trace fine sand, stiff, medium plasticity, moist, no odor		0.0		
2							
3					1.2		
4		CL	CLAY, grey to black, some silt, stiff, medium plasticity, moist, mild product odor		12.6		
5							
6		CL	CLAY, light brown, some silt, stiff, moist, mild product odor				
7							
8						0.3	 KP-SB01(6-9)-052912
9							
10		CL	CLAY, brown with black streaking, some silt, moist, no odor		0.2		
11							
12		CL	CLAY, brown with black streaking, some silt, wet, no odor				
13							
14					0.8		
15		CL	CLAY, brown with black streaking, some silt, wet, no odor				
16						0.0	
17							
18							
19					0.0	 KP-SB01(18-20)-052912 KP-SB01(18-20)-052912D	
20	END OF BORING AT 20' bgs						
21							
22							



U.S. EPA Region V Contract: EP-S5-06-04 Kimball Avenue Park - 15 N. Kimball Ave. Chicago, Cook County, Illinois	Date : 05-29-12 Sample Date : 05-29-12 Collector : WESTON Drilling Company : Cabeno Environmental Drill Rig Type : Geoprobe	Completion Depth : 20' WESTON Geologist : J. Colomb
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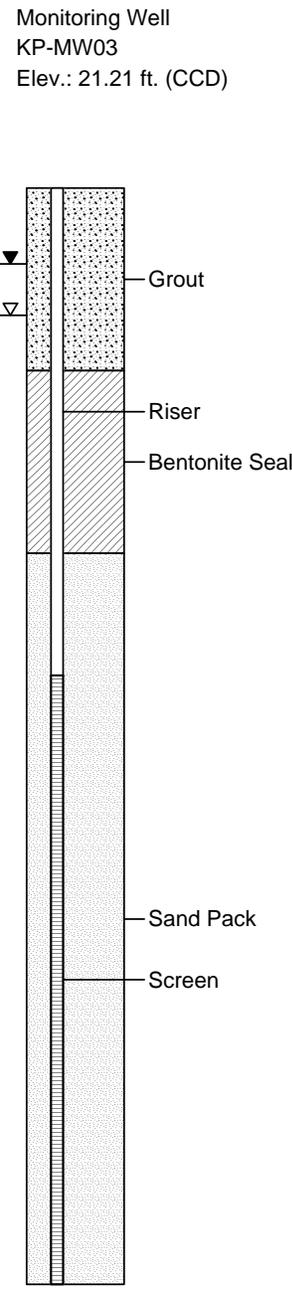
Depth (ft)	GRAPHIC	USCS	Samples Collected		Analyses Performed		PID (parts per million)	Sample	REMARKS
			Investigative Sample	Duplicate Sample	MS/MSD Sample	TPH DRO, TPH GRO, TCL VOCs, % Moisture			
			DESCRIPTION						
0		SP	SAND, Poorly Graded, fine to medium grained, light brown, moist, no odor						
1		CL	CLAY, some small gravel, medium plasticity, dark brown, moist, no odor				13.1		
2							18.4		
3		CL	CLAY, dark brown with some black banding, moist, no odor						
4							26.2		
5		CL	CLAY, light brown to grey, some silt, medium plasticity, wet, slight odor				205		
6									
7		CL	CLAY, dark brown, trace fine sand, wet, slight product odor						
8							594		KP-SB02(9-12)-052912
9		CL	CLAY, dark brown, trace fine sand, wet, slight product odor						
10							1375		
11		CL	CLAY, dark brown, trace fine sand, wet, slight product odor						
12							406		
13		SP	SAND, Poorly Graded, fine to medium grained, light brown to black, wet, no odor						
14									
15		CL	CLAY, grey with brown streaking, medium plasticity, wet, no odor						
16							46.4		KP-SB02(18-20)-052912
17									
18									
19									
20									
END OF BORING AT 20' bgs									
21									
22									

Monitoring Well
KP-MW02
Elev.: 21.38 ft. (CCD)



U.S. EPA Region V Contract: EP-S5-06-04 Kimball Avenue Park - 15 N. Kimball Ave. Chicago, Cook County, Illinois	Date : 05-29-12 Sample Date : 05-29-12 Collector : WESTON Drilling Company : Cabeno Environmental Drill Rig Type : Geoprobe	Completion Depth : 20' WESTON Geologist : J. Colomb
--	---	--

Depth (ft)	GRAPHIC	USCS	Samples Collected		Analyses Performed		PID (parts per million)	Sample	REMARKS
			Investigative Sample	Duplicate Sample	MS/MSD Sample	TCL SVOCs, FOC, % Moisture			
			DESCRIPTION						
0		SW							
1									
2		SM				0.0			
3						28.2			
4									
5		CL				1.7			
6									
7									
8		CL				2.0			
9									
10									
11									
12		SM				1.8			
13									
14		CL							
15						0.6			
16									
17		NR							
18									
19									
20									
END OF BORING AT 20' bgs									
21									
22									



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U.S. EPA Region V Contract: EP-S5-06-04	Date Drilled : 05-29-12 Sample Date : 05-29-12 Collector : WESTON Drilling Company : Cabeno Environmental Drill Rig Type : Geoprobe	Completion Depth : 16' WESTON Geologist : J. Colomb
Kimball Avenue Park - 15 N. Kimball Ave. Chicago, Cook County, Illinois		

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS
			 Investigative Sample  Duplicate Sample  MS/MSD Sample	TCL VOCs, % Moisture			
			DESCRIPTION				
0		SW	SAND, Well Graded, fine to medium grained, some small to medium gravel, light brown, dry, no odor				
1		SM	SANDY SILT, fine to medium sand, trace small gravel, dark brown, moist, no odor		0.0		
2					0.0		
3		CL	CLAY, light brown with dark brown banding, medium plasticity, moist, no odor		0.2		
4					0.0		
5		CL	CLAY, grey-brown, some light brown streaking, moist, no odor		0.1		
6					0.1		
7		CL	CLAY, grey-brown, some light brown streaking, wet, no odor		0.0		KP-SB04(10-12)-052912
8					0.0		
9		SM	SILTY SAND, fine to medium grained sand, light brown, wet/saturated, no odor		0.0		
10					0.0		
11		CL	CLAY, grey-brown, some light brown streaking, wet, no odor		0.0		KP-SB04(14-16)-052912
12					0.0		
13		CL	CLAY, grey with some light brown streaking, stiff, medium plasticity, dry, no odor		0.0		
14					0.0		
15		CL	CLAY, grey with some light brown streaking, stiff, medium plasticity, dry, no odor		0.0		
16	END OF BORING AT 16'						
17							
18							



Soil Boring KP-SB05

(Page 1 of 1)

U.S. EPA Region V Contract: EP-S5-06-04 Kimball Avenue Park - 15 N. Kimball Ave. Chicago, Cook County, Illinois	Date Drilled : 05-29-12 Sample Date : 05-29-12 Collector : WESTON Drilling Company : Cabeno Environmental Drill Rig Type : Geoprobe	Completion Depth : 16' WESTON Geologist : J. Colomb
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	TCL VOCs, % Moisture			
			DESCRIPTION				

0		SW	SAND, Well Graded, fine to medium grained, some small gravel, light brown, dry, no odor					
1		SM	SANDY SILT, fine to medium sand, trace small gravel, dark brown, dry, no odor		0.0			
2								
3		CL	CLAY, light brown with dark brown banding, medium plasticity, dry, no odor		0.1			
4								
5								
6		CL	CLAY, grey-brown, some light brown streaking, moist, no odor		0.0			
7								
8		SM	SILTY SAND, fine to medium grained sand, light brown, wet, no odor		0.0			
9								
10								
11		CL	CLAY, grey-brown, some light brown streaking, wet, no odor		0.0		KP-SB05(11-13)-052912	
12								
13		CL	CLAY, grey with some light brown streaking, stiff, medium plasticity, dry, no odor		0.0			
14								
15								
16	END OF BORING AT 16'							
17								
18								



Soil Boring KP-SB06

U.S. EPA Region V
 Contract: EP-S5-06-04
 Kimball Avenue Park - 15 N. Kimball Ave.
 Chicago, Cook County, Illinois

Date Drilled : 05-29-12
 Sample Date : 05-29-12
 Collector : WESTON
 Drilling Company : Cabeno Environmental
 Drill Rig Type : Geoprobe

Completion Depth : 16'
 WESTON Geologist : J. Colomb

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	TCL VOCs, % Moisture			
			DESCRIPTION				
0		SM	SILTY SAND, fine to medium grained sand, light brown, dry, no odor		0.0		
1							
2		CL	CLAY, grey to brown, some light brown streaking, medium plasticity, wet, no odor		0.0		
3							
4							
5		CL	SANDY CLAY, dark brown to black, medium plasticity, wet, no odor		0.0		
6							
7		CL	CLAY, grey with brown streaking, medium plasticity, moist, no odor		0.0		
8							
9							
10		CL	CLAY, light brown with black streaking, medium plasticity, moist, no odor		0.0		KP-SB06(10-12)-052912
11							
12		CL	CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor		0.0		
13							
14							
15							
16	END OF BORING AT 16'						
17							KP-SB06(14-16)-052912
18							



Soil Boring KP-SB07

U.S. EPA Region V
 Contract: EP-S5-06-04
 Kimball Avenue Park - 15 N. Kimball Ave.
 Chicago, Cook County, Illinois

Date Drilled : 05-29-12
 Sample Date : 05-29-12
 Collector : WESTON
 Drilling Company : Cabeno Environmental
 Drill Rig Type : Geoprobe

Completion Depth : 16'
 WESTON Geologist : J. Colomb

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS	
			Investigative Sample Duplicate Sample MS/MSD Sample	TCL VOCs, % Moisture				
			DESCRIPTION					
0		SP	SAND, Poorly Graded, fine to medium grained, dark brown with some black streaking, moist, no odor		0.2			
1			CL	CLAY, grey to brown, some light brown streaking, medium plasticity, wet, no odor				
2				SANDY CLAY, dark brown to black, medium plasticity, wet, no odor				
3		CL	CLAY, grey with brown streaking, medium plasticity, moist, no odor		2.1			
4			CLAY, grey with brown streaking, medium plasticity, moist, no odor					
5			CLAY, light brown with black streaking, medium plasticity, moist, no odor					
6			CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor					
7		CL	CLAY, grey with brown streaking, medium plasticity, moist, no odor		6.2		KP-SB07(8-10)-052912	
8			CLAY, light brown with black streaking, medium plasticity, moist, no odor					
9		CL	CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor		5.2			
10			CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor					
11			CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor					
12		CL	CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor		0.2		KP-SB07(14-16)-052912	
13			CLAY, grey with some light brown streaking, stiff, medium plasticity, wet, no odor					
14	END OF BORING AT 16'							
15								
16								
17								
18								



Soil Boring KP-SB08

(Page 1 of 1)

U.S. EPA Region V
 Contract: EP-S5-06-04
 Kimball Avenue Park - 15 N. Kimball Ave.
 Chicago, Cook County, Illinois

Date Drilled : 05-29-12
 Sample Date : 05-29-12
 Collector : WESTON
 Drilling Company : Cabeno Environmental
 Drill Rig Type : Geoprobe

Completion Depth : 17'
 WESTON Geologist : J. Colomb

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	TCL VOCs, % Moisture, TPH GRO, TPH DRO			
			DESCRIPTION				
0		SM	SANDY SILT, fine to medium sand, trace small gravel, dark brown, moist, no odor		0.2		
1							
3		CL	CLAY, grey with brown streaking, medium plasticity, stiff, slight product odor		33.8		KP-SB08(4-6)-052912
4							
6		CL	CLAY, light brown with black streaking, medium plasticity, moist, no odor		0.0		
7							
10		GP	GRAVEL, Poorly Graded, small to medium gravel, saturated, some product, strong product odor		0.0		
11							
15		GP	GRAVEL, Poorly Graded, small to medium gravel, saturated, some product, strong product odor		0.0		KP-SB08(15-17)-052912
16							
17	END OF BORING AT 17'						
18							

07-13-2012 C:\Users\jcolombj\Desktop\Kimball Park Logs\KP_SB_08.bor



Soil Boring KP-SB09

U.S. EPA Region V Contract: EP-S5-06-04 Kimball Avenue Park - 15 N. Kimball Ave. Chicago, Cook County, Illinois	Date Drilled : 05-29-12 Sample Date : 05-29-12 Collector : WESTON Drilling Company : Cabeno Environmental Drill Rig Type : Geoprobe	Completion Depth : 16' WESTON Geologist : J. Colomb
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DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS
			Investigative Sample Duplicate Sample MS/MSD Sample	TCL VOCs, % Moisture, FOC, TCL SVOCs			
			DESCRIPTION				

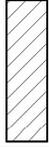
0			SANDY SILT, fine to medium sand, trace small gravel, dark brown, moist, no odor				
1					0.0		KP-SB09(0-3)-052912
2		SM					
3					0.2		
4			CLAY, light brown with black streaking, medium plasticity, dry, no odor		0.2		KP-SB09(3-6)-052912
5							
6		CL			0.1		
7							
8			CLAY, grey with brown streaking, medium plasticity, moist, no odor				
9		CL			0.0		
10							
11		SM	SILTY SAND, fine to medium sand, black, wet, mild product odor		0.0		
12			CLAY, light brown with some black streaking, moist, no odor		0.0		
13							
14		CL			0.0		
15							
16			END OF BORING AT 16'		0.0		
17							
18							

U.S. EPA Region V
Contract: EP-S5-06-04

Kimball Avenue Park - 15 N. Kimball Ave.
Chicago, Cook County, Illinois

Date Drilled : 05-29-12
Sample Date : 05-29-12
Collector : WESTON
Drilling Company : Cabeno Environmental
Drill Rig Type : Geoprobe

Completion Depth : 14'
WESTON Geologist : J. Colomb

DEPTH (ft)	GRAPHIC	USCS	Samples Collected	Analyses Performed	PID (parts per million)	Sample	REMARKS	
			 Investigative Sample  Duplicate Sample  MS/MSD Sample	PAHs, % Moisture				
			DESCRIPTION					
0		CL	SILTY CLAY, some small to medium gravel, light brown, dry, no odor		0.0		KP-SB10(3-5)-052912	
1			2	CLAY, light brown, medium plasticity, dry, no odor				0.0
3		SM	SANDY SILT, fine to medium grained, light brown, wet, no odor		0.0			
4			5	CLAY, dark brown, medium plasticity, moist, no odor				0.0
6			7	CLAY, grey with some light brown streaking, moist, no odor				0.0
8		CL			0.0		KP-SB10(12-14)-052912 KP-SB10(12-14)-052912D	
9			10					0.0
11	END OF BORING AT 14'							
12								
13								
14								
15								
16								
17								
18								

**APPENDIX D
DATA TABLES**

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
pH	SU	10.1	8.1	8.3	NA	8.1	8.7	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganics										
Aluminum	mg/kg	NA	NA	NA	NA	22,000	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	3.3	NA	NA	NA	NA
Arsenic	mg/kg	3.3	8.5	NA	NA	11	9.9	NA	NA	NA
Barium	mg/kg	32	110	NA	NA	140	62	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	1.6	NA	NA	NA	NA
Cadmium	mg/kg	0.52 U	0.51 U	NA	NA	0.69	0.58 U	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	14,000	NA	NA	NA	NA
Chromium	mg/kg	88	38	28	21	37	20	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	14	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	75	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	0.32 U	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	30,000	NA	NA	NA	NA
Lead	mg/kg	14	30	NA	NA	180	16	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	11,000	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	330	NA	NA	NA	NA
Mercury	mg/kg	0.025 U	0.029 U	NA	NA	0.84	0.03 U	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	46	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	3,900	NA	NA	NA	NA
Selenium	mg/kg	1 U	1 U	NA	NA	3	1.2 U	NA	NA	NA
Silver	mg/kg	1 U	1 U	NA	NA	1.3 U	1.2 U	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	340	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	1.3 U	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	42	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	110	NA	NA	NA	NA
TCLP Metals										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
Pesticides										
4,4'-DDD	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
4,4'-DDE	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
4,4'-DDT	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Aldrin	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
alpha-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
beta-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
delta-BHC	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Dieldrin	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endosulfan I	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Endosulfan II	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin aldehyde	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
Endrin ketone	mg/kg	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Heptachlor	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA	NA
Methoxychlor	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
Toxaphene	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
PCBS										
PCB-1016 (Aroclor 1016)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA
Herbicides										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
VOCs										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,1,1-Trichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.05	0.0046 U	0.0062 U
1,1-Dichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,1-Dichloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.05	0.0043 J	0.0051 J
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0037 J	0.0062 U
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,2-Dichloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,2-Dichloropropane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
1,4-Difluorobenzene	mg/kg	0.05	NA	0.05	NA	0.06	0.06	NA	NA	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
2-Butanone (MEK)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023 U	0.031 U
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
2-Hexanone	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.092 U	0.12 U
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
4-Methyl-2-pentanone (MIBK)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023 U	0.031 U
Acetone	mg/kg	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.092 U	0.12 U
Acrolein	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Benzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.008	0.2	0.005 U	0.0046 U	0.0062 U
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Bromodichloromethane	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Bromoform	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Bromomethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Carbon disulfide	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0092 U	0.012 U
Carbon tetrachloride	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
Chlorobenzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Chloroethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Chloroform	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	6.13	0.0061	0.0034 J
Chloromethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	0.01	NA	0.05	0.005 U	0.2	368	1.16	0.077	0.045
cis-1,3-Dichloropropene	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
Dibromochloromethane	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Ethylbenzene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	3	0.01	0.0046 U	0.0062 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Methylene Chloride	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.018 U	0.025 U
Methyl-tert-butyl ether	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0036 J	0.0062 U
n-Hexane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.019	0.0062 U
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0039 J	0.0062 U
Pentafluorobenzene	mg/kg	0.05	NA	0.05	NA	0.06	0.06	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Styrene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0046 U	0.0062 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Tetrachloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.05	1	0.04	0.0046 U	0.0062 U
Toluene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.008	10	0.28	0.0029 J	0.0062 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.005 U	8	0.06	0.0034 J	0.0062 U
trans-1,3-Dichloropropene	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0046 U	0.0062 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Trichloroethene	mg/kg	0.03	NA	0.09	0.005 U	0.3	599	408	8.2	9.6
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.0046 U	0.0062 U
Vinyl acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA	0.092 U	0.12 U
Vinyl chloride	mg/kg	0.002 U	NA	0.002 U	0.002 U	0.002 U	11	0.16	0.016	0.012
Xylene (Total)	mg/kg	0.005 U	NA	0.005 U	0.005 U	0.006	4	0.05	0.0092 U	0.012 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
SVOCs										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	0.06 U	0.06 U	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	0.21 U	0.21 U	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	0.1 U	0.1 U	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	0.83 U	0.83 U	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	2 U	2 U	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	0.33 U	0.33 U	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
Acenaphthene	mg/kg	0.05 U	0.05 U	NA	NA	0.15 U	0.15 U	NA	NA	NA
Acenaphthylene	mg/kg	0.05 U	0.05 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Anthracene	mg/kg	0.12	0.08 U	NA	NA	0.3 U	0.3 U	NA	NA	NA
Benzo(a)anthracene	mg/kg	2.42	0.008 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Benzo(a)pyrene	mg/kg	4.58	0.02 U	NA	NA	0.07 U	0.07 U	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	6.29	0.05	NA	NA	0.06 U	0.06 U	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	3.76	0.15	NA	NA	0.12 U	0.12 U	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	2.09	0.02	NA	NA	0.12 U	0.12 U	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-1	B-1	B-1	B-1	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01	B-2/KP-SB01
	Field Sample ID:	B-1 (0-3)	B-1 (3-6)	B-1 (6-9)	B-1 (9-12)	B-2 (3-6)	B-2 (6-9)	B-2 (9-12)	KP-SB01(18-20)	KP-SB01(18-20) D
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	3- 6	6- 9	9- 12	18- 20	18- 20
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA
Chrysene	mg/kg	2.58	0.05 U	NA	NA	0.09 U	0.09 U	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	0.25	0.02 U	NA	NA	0.11 U	0.11 U	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	3.3 U	3.3 U	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	0.5 U	0.5 U	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	0.86 U	0.86 U	NA	NA	NA
Fluoranthene	mg/kg	2.16	0.05 U	NA	NA	0.18	0.09 U	NA	NA	NA
Fluorene	mg/kg	0.03 U	0.03 U	NA	NA	0.14 U	0.14 U	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	0.07 U	0.07 U	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	3.45	0.11	NA	NA	0.13 U	0.13 U	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Naphthalene	mg/kg	0.05 U	0.05 U	NA	NA	0.09 U	0.09 U	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	0.24 U	0.24 U	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	0.67 U	0.67 U	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	0.03 U	0.03 U	NA	NA	NA
Phenanthrene	mg/kg	0.45	0.03 U	NA	NA	0.12 U	0.12 U	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	0.66 U	0.66 U	NA	NA	NA
Pyrene	mg/kg	1.94	0.05 U	NA	NA	0.23	0.07 U	NA	NA	NA
Petroleum Hydrocarbons										
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
pH	SU	NA	8.6	8.2	NA	NA	10.8	7.5	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	3	1.3	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganics										
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	5,400	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	59	2.3 U	NA
Arsenic	mg/kg	NA	4.8	9.5	NA	NA	15	18	2.9	NA
Barium	mg/kg	NA	84	82	NA	NA	62	220	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	0.91	NA	NA
Cadmium	mg/kg	NA	0.59 U	0.57 U	NA	NA	0.55 U	1.1	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	16,000	NA	NA
Chromium	mg/kg	NA	23	25	NA	NA	24	20	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	6.4	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	2,200	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	0.28 U	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	86,000	19,000	NA
Lead	mg/kg	NA	14	18	NA	NA	200	1,100	14	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	4,600	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	630	NA	NA
Mercury	mg/kg	NA	0.028 U	0.03 U	NA	NA	0.17	0.38	0.03	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	16	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	690	NA	NA
Selenium	mg/kg	NA	1.2 U	1.1 U	NA	NA	1.1 U	2.2	NA	NA
Silver	mg/kg	NA	1.2 U	1.1 U	NA	NA	1.1 U	1.2	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	460	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	1.1 U	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	26	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	450	NA	NA
TCLP Metals										
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
Pesticides										
4,4'-DDD	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
4,4'-DDE	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
4,4'-DDT	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Aldrin	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
alpha-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
beta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
delta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Dieldrin	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endosulfan I	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Endosulfan II	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin aldehyde	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Endrin ketone	mg/kg	NA	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Heptachlor	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	NA	NA	NA	0.008 U	NA	NA	NA
Methoxychlor	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
Toxaphene	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
PCBS										
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	NA	NA	NA	0.08 U	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA
Herbicides										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
VOCs										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	2	0.005 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	0.019	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	0.0053	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.05	0.07	NA	NA	NA	NA	0.05	0.05
2,2-Dichloropropane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	NA	0.005 U	0.005 U	0.022 U	NA	NA	NA	0.005 U	0.005 U
2-Chlorotoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	0.005 U	0.005 U	0.088 U	NA	NA	NA	0.005 U	0.005 U
4-Chlorotoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	0.005 U	0.005 U	0.022 U	NA	NA	NA	0.005 U	0.005 U
Acetone	mg/kg	NA	0.05 U	0.05 U	0.088 U	NA	NA	NA	0.05 U	0.05 U
Acrolein	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Benzene	mg/kg	NA	0.005 U	0.005 U	0.0018 J	NA	NA	NA	0.005 U	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Bromoform	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Bromomethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Carbon disulfide	mg/kg	NA	0.005 U	0.005 U	0.0088 U	NA	NA	NA	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U

Table D-1
Soil Analytical Results
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Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6-9	3-6	6-9	0-3	3-6	0-3	3-6	6-9	9-12
Chlorobenzene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Chloroethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.3
Chloroform	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Chloromethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/kg	NA	0.005 U	1	0.0044 U	NA	NA	NA	872	20
cis-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
Dibromochloromethane	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Dibromomethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	0.005	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.005 U	0.005 U	0.018 U	NA	NA	NA	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Naphthalene, VOC	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	0.0045	NA	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.05	0.07	NA	NA	NA	NA	0.05	0.05
p-Isopropyltoluene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Styrene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	5	0.005 U
Toluene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	0.0044 U	NA	NA	NA	15	0.005 U
trans-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	0.002 U	0.002 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	0.01	2	0.0044 U	NA	NA	NA	0.005 U	0.005 U
Trichlorofluoromethane	mg/kg	NA	NA	NA	0.0044 U	NA	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	0.088 U	NA	NA	NA	NA	NA
Vinyl chloride	mg/kg	NA	0.002 U	0.002 U	0.0044 U	NA	NA	NA	10	0.2
Xylene (Total)	mg/kg	NA	0.005 U	0.005 U	0.049	NA	NA	NA	0.005 U	0.005 U

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Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
SVOCs										
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.22 U	NA	NA	0.22 U
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.06 U	NA	NA	0.06 U
2,4-Dichlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dimethylphenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dinitrophenol	mg/kg	NA	NA	NA	2 U	NA	0.66 U	NA	NA	0.66 U
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	0.41 U	NA	0.21 U	NA	NA	0.21 U
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	0.41 U	NA	0.1 U	NA	NA	0.1 U
2-Chloronaphthalene	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Chlorophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Methylnaphthalene	mg/kg	NA	NA	NA	0.41 U	NA	0.12 U	NA	NA	0.12 U
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
2-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
2-Nitrophenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	0.82 U	NA	0.83 U	NA	NA	0.83 U
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	0.82 U	NA	0.11 U	NA	NA	0.11 U
3-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	2 U	NA	2 U	NA	NA	2 U
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	0.82 U	NA	1.3 U	NA	NA	1.3 U
4-Chloroaniline	mg/kg	NA	NA	NA	0.82 U	NA	0.33 U	NA	NA	0.33 U
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
4-Nitroaniline	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
4-Nitrophenol	mg/kg	NA	NA	NA	2 U	NA	3.3 U	NA	NA	3.3 U
Acenaphthene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	0.15 U	0.13	NA	0.15 U
Acenaphthylene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	0.07 U	0.1	NA	0.07 U
Anthracene	mg/kg	NA	0.08 U	0.08 U	0.41 U	NA	0.36	0.87	NA	0.3 U
Benzo(a)anthracene	mg/kg	NA	0.008 U	0.008 U	0.41 UJ	NA	1.28	2.83	NA	0.07 U
Benzo(a)pyrene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	1.15	2.77	NA	0.07 U
Benzo(b)fluoranthene	mg/kg	NA	0.01 U	0.01 U	0.41 U	NA	1.57	3.48	NA	0.06 U
Benzo(g,h,i)perylene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.6	1.7	NA	0.12 U
Benzo(k)fluoranthene	mg/kg	NA	0.01 U	0.01 U	0.41 U	NA	0.68	0.97	NA	0.12 U
Benzyl alcohol	mg/kg	NA	NA	NA	0.82 U	NA	1.3 U	NA	NA	1.3 U
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
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Chemical Name	Location ID	B-2/KP-SB01	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-3/KP-SB09	B-4	B-4	B-4	B-4
	Field Sample ID:	KP-SB01(6-9)	B-3 (3-6)	B-3 (6-9)	KP-SB09(0-3)	KP-SB09(3-6)	B-4 (0-3)	B-4 (3-6)	B-4 (6-9)	B-4 (9-12)
	Sample Date	5/29/2012	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	6- 9	3- 6	6- 9	0- 3	3- 6	0- 3	3- 6	6- 9	9- 12
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	0.66 U	NA	NA	0.66 U
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Butylbenzylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Carbazole	mg/kg	NA	NA	NA	NA	NA	0.13 U	NA	NA	0.13 U
Chrysene	mg/kg	NA	0.05 U	0.05 U	0.41 UJ	NA	1.67	2.58	NA	0.09 U
Dibenz(a,h)anthracene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.11 U	0.1	NA	0.11 U
Dibenzofuran	mg/kg	NA	NA	NA	0.41 U	NA	0.22 U	NA	NA	0.22 U
Diethylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Dimethylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	3.3 U	NA	NA	3.3 U
Di-n-butylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.5 U	NA	NA	0.5 U
Di-n-octylphthalate	mg/kg	NA	NA	NA	0.41 U	NA	0.86 U	NA	NA	0.86 U
Fluoranthene	mg/kg	NA	0.05 U	0.05 U	0.41 U	NA	2.33	4.95	NA	0.09 U
Fluorene	mg/kg	NA	0.03 U	0.03 U	0.41 UJ	NA	0.14 U	0.18	NA	0.14 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Hexachlorobenzene	mg/kg	NA	NA	NA	0.41 U	NA	0.07 U	NA	NA	0.07 U
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	0.41 U	NA	0.17 U	NA	NA	0.17 U
Hexachloroethane	mg/kg	NA	NA	NA	0.41 U	NA	0.13 U	NA	NA	0.13 U
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.02 U	0.02 U	0.41 U	NA	0.48	1.43	NA	0.13 U
Isophorone	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Naphthalene	mg/kg	NA	0.05 U	0.05 U	0.41 U	NA	0.09 U	0.25	NA	0.09 U
Nitrobenzene	mg/kg	NA	NA	NA	0.41 U	NA	0.24 U	NA	NA	0.24 U
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	0.41 U	NA	0.02 U	NA	NA	0.02 U
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	0.41 U	NA	0.67 U	NA	NA	0.67 U
Pentachlorophenol	mg/kg	NA	NA	NA	2 U	NA	0.03 U	NA	NA	0.03 U
Phenanthrene	mg/kg	NA	0.03 U	0.03 U	0.41 U	NA	1.66	3.04	NA	0.12 U
Phenol	mg/kg	NA	NA	NA	0.41 U	NA	0.66 U	NA	NA	0.66 U
Pyrene	mg/kg	NA	0.05 U	0.05 U	0.22 J	NA	2.45	4.7	NA	0.07 U
Petroleum Hydrocarbons										
TPH (C06-C10)	mg/kg	20.3	NA	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	29	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
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Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
pH	SU	11.8	7.8	NA	NA	NA	NA	8.3	8	8.4
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	2.8	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganics										
Aluminum	mg/kg	2,800	4,500	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	17	26	2.3 U	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	5.4	17	4.6	NA	NA	NA	14	29	5
Barium	mg/kg	51	180	NA	NA	NA	NA	130	230	NA
Beryllium	mg/kg	0.5 U	1.1	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	0.5 U	1.8	NA	NA	NA	NA	1.6	3.6	NA
Calcium	mg/kg	69,000	27,000	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	9.4	18	NA	NA	NA	NA	22	46	24
Cobalt	mg/kg	3	5.8	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	490	580	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	0.26 U	0.3 U	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	27,000	25,000	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	160	840	15	NA	NA	NA	910	2,800	18
Magnesium	mg/kg	24,000	5,900	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	410	260	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	0.068	0.42	0.031	NA	NA	NA	0.82	3	0.03
Nickel	mg/kg	11	17	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	390	1,200	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	1 U	7.2	1.2 U	NA	NA	NA	1.1 U	1.3	NA
Silver	mg/kg	1 U	1 U	NA	NA	NA	NA	1.1 U	2.5	NA
Sodium	mg/kg	120	430	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	12	23	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	99	320	NA	NA	NA	NA	NA	NA	NA
TCPLP Metals										
Arsenic, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Barium, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.88	NA
Cadmium, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.008	NA
Chromium, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Lead, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.43	NA
Mercury, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA
Selenium, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Silver, TCPLP	mg/L	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
Pesticides										
4,4'-DDD	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
4,4'-DDE	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
4,4'-DDT	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Aldrin	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
alpha-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
beta-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
delta-BHC	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Dieldrin	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endosulfan I	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Endosulfan II	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin aldehyde	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
Endrin ketone	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.04	0.008 U	NA
Heptachlor	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	0.008 U	NA	NA	NA	0.008 U	0.008 U	NA
Methoxychlor	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
Toxaphene	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
PCBS										
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	0.08 U	NA	NA	NA	0.08 U	0.08 U	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA
Herbicides										
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
VOCs										
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	NA	0.005 U	0.005 U	4	0.019 J	NA	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.07	NA	0.06	NA	NA	0.05	0.05	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.024 U	NA	0.005 U	0.005 U	0.005 U
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
2-Hexanone	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.095 U	NA	0.005 U	0.005 U	0.005 U
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.024 U	NA	0.005 U	0.005 U	0.005 U
Acetone	mg/kg	NA	0.05 U	0.05 U	0.05 U	0.095 U	NA	0.05 U	0.05 U	0.05 U
Acrolein	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Benzene	mg/kg	NA	0.4	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Bromodichloromethane	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Bromoform	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Bromomethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Carbon disulfide	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0095 U	NA	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
Chlorobenzene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloroethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloroform	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Chloromethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/kg	NA	8	942	990	56.6 J	NA	0.02	0.1	0.005 U
cis-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
Dibromochloromethane	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Dibromomethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Ethylbenzene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Methylene Chloride	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.019 U	NA	0.005 U	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.07	NA	0.06	NA	NA	0.05	0.05	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Styrene	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0047 U	NA	0.005 U	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Tetrachloroethene	mg/kg	NA	0.5	0.005 U	14	0.017 J	NA	0.005 U	0.005 U	0.005 U
Toluene	mg/kg	NA	0.3	0.005 U	0.005 U	0.0027 J	NA	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	NA	0.005 U	7.34	14	0.054 J	NA	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/kg	NA	0.002 U	0.002 U	0.002 U	0.0047 U	NA	0.002 U	0.002 U	0.002 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Trichloroethene	mg/kg	NA	73	0.005 U	0.005 U	803 J	NA	0.08	1	0.02
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	0.0047 U	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	NA	0.095 U	NA	NA	NA	NA
Vinyl chloride	mg/kg	NA	26	44.2	0.002 U	3 J	NA	0.002 U	0.002 U	0.02
Xylene (Total)	mg/kg	NA	0.005 U	0.005 U	0.005 U	0.0095 U	NA	0.005 U	0.01	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
SVOCs										
1,2,4-Trichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,2-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,3-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
1,4-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.22 U	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	0.06 U	0.06 U	NA	NA	NA	0.06 U	0.06 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dinitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.21 U	0.21 U	NA	NA	NA	0.21 U	0.21 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.1 U	0.1 U	NA	NA	NA	0.1 U	0.1 U	NA
2-Chloronaphthalene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Chlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Methylnaphthalene	mg/kg	NA	0.64	0.12 U	NA	NA	NA	0.19	0.12 U	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
2-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
2-Nitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	0.83 U	0.83 U	NA	NA	NA	0.83 U	0.83 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA
3-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2 U	2 U	NA	NA	NA	2 U	2 U	NA
4-Bromophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA
4-Chloroaniline	mg/kg	NA	0.33 U	0.33 U	NA	NA	NA	0.33 U	0.33 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
4-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
4-Nitrophenol	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
Acenaphthene	mg/kg	0.05 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA
Acenaphthylene	mg/kg	0.05 U	0.07 U	0.07 U	NA	NA	NA	0.07 U	0.07 U	NA
Anthracene	mg/kg	0.08 U	0.39	0.3 U	NA	NA	NA	0.73	0.3 U	NA
Benzo(a)anthracene	mg/kg	0.12	1.07	0.07 U	NA	NA	NA	2.42	0.21	NA
Benzo(a)pyrene	mg/kg	0.11	1.1	0.07 U	NA	NA	NA	2.21	0.29	NA
Benzo(b)fluoranthene	mg/kg	0.15	1.2	0.06 U	NA	NA	NA	2.67	0.36	NA
Benzo(g,h,i)perylene	mg/kg	0.17	0.69	0.12 U	NA	NA	NA	0.99	0.25	NA
Benzo(k)fluoranthene	mg/kg	0.07	0.4	0.12 U	NA	NA	NA	0.81	0.16	NA
Benzyl alcohol	mg/kg	NA	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-5/KP-SB02	B-6	B-6	B-6
	Field Sample ID:	B-5 (0-3)	B-5 (3-6)	B-5 (6-9)	B-5 (9-12)	KP-SB02(18-20)	KP-SB02(9-12)	B-6 (0-3)	B-6 (3-6)	B-6 (6-9)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	5/29/2012	8/4/2010	8/4/2010	8/4/2010
	Depth Interval (ft bgs)	0- 3	3- 6	6- 9	9- 12	18- 20	9- 12	0- 3	3- 6	6- 9
bis(2-Chloroethoxy)methane	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
bis(2-Chloroethyl) ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Butylbenzylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Carbazole	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA
Chrysene	mg/kg	0.11	0.97	0.09 U	NA	NA	NA	2.2	0.25	NA
Dibenz(a,h)anthracene	mg/kg	0.02 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA
Dibenzofuran	mg/kg	NA	0.22 U	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA
Diethylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Dimethylphthalate	mg/kg	NA	3.3 U	3.3 U	NA	NA	NA	3.3 U	3.3 U	NA
Di-n-butylphthalate	mg/kg	NA	0.5 U	0.5 U	NA	NA	NA	0.5 U	0.5 U	NA
Di-n-octylphthalate	mg/kg	NA	0.86 U	0.86 U	NA	NA	NA	0.86 U	0.86 U	NA
Fluoranthene	mg/kg	0.21	1.9	0.09 U	NA	NA	NA	4.26	0.3	NA
Fluorene	mg/kg	0.03 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA
Hexachloro-1,3-butadiene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Hexachlorobenzene	mg/kg	NA	0.07 U	0.07 U	NA	NA	NA	0.07 U	0.07 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA
Hexachloroethane	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	0.12	0.46	0.13 U	NA	NA	NA	0.88	0.19	NA
Isophorone	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Naphthalene	mg/kg	0.05 U	0.49	0.09 U	NA	NA	NA	0.25	0.09 U	NA
Nitrobenzene	mg/kg	NA	0.24 U	0.24 U	NA	NA	NA	0.24 U	0.24 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.67 U	0.67 U	NA	NA	NA	0.67 U	0.67 U	NA
Pentachlorophenol	mg/kg	NA	0.03 U	0.03 U	NA	NA	NA	0.03 U	0.03 U	NA
Phenanthrene	mg/kg	0.08	1.86	0.12 U	NA	NA	NA	3.95	0.12 U	NA
Phenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	0.66 U	0.66 U	NA
Pyrene	mg/kg	0.19	2.57	0.07 U	NA	NA	NA	5.47	0.44	NA
Petroleum Hydrocarbons										
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	1,720	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	43.6 J	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
pH	SU	NA	8.5	7.7	NA	NA	NA	8.8
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	1.4	NA
Organic Carbon Content	%	NA	NA	NA	4.1	NA	NA	NA
Total Inorganics								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	12	5.3	NA	NA	NA	5.8
Barium	mg/kg	NA	220	76	NA	NA	NA	200
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	0.78	1.8	NA	NA	NA	0.8
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	33	8.7	NA	NA	NA	19
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	180	36	NA	NA	NA	140
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	0.15	0.034 U	NA	NA	NA	0.063
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	1.1 U	1.7	NA	NA	NA	1.1 U
Silver	mg/kg	NA	1.1 U	1.3 U	NA	NA	NA	1.1 U
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA
TCLP Metals								
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
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Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
Pesticides								
4,4'-DDD	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	0.11	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	0.07	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	0.02 U	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	0.05	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	0.008 U	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
PCBS								
PCB-1016 (Aroclor 1016)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	0.08 U	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	0.16 U	NA	NA	NA	NA	NA
Herbicides								
2,4,5-T	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
2,4,5-TP (Silvex)	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
2,4-D	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U
Dalapon	mg/kg	NA	0.05 U	NA	NA	NA	NA	0.05 U
Dinoseb	mg/kg	NA	0.02 U	NA	NA	NA	NA	0.02 U
Picloram	mg/kg	NA	0.01 U	NA	NA	NA	NA	0.01 U

Table D-1
Soil Analytical Results
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Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
VOCs								
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Difluorobenzene	mg/kg	NA	0.06	0.08	NA	NA	NA	0.06
2,2-Dichloropropane	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
2-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
4-Chlorotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone (MIBK)	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Acetone	mg/kg	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA
Acrolein	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	mg/kg	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/kg	0.005 U	0.005 U	0.007	0.008	0.005 U	NA	0.005 U
Bromobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Bromoform	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Bromomethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Carbon disulfide	mg/kg	0.005 U	0.01	0.02	0.005 U	0.005 U	NA	NA
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloroethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloroform	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Chloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
cis-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
cis-1,3-Dichloropropene	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Dibromomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Methyl-tert-butyl ether	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Naphthalene, VOC	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Hexane	mg/kg	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pentafluorobenzene	mg/kg	NA	0.06	0.08	NA	NA	NA	0.06
p-Isopropyltoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
tert-Butylbenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/kg	0.08	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
Toluene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA
trans-1,3-Dichloropropene	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/kg	0.005 U	0.03	0.04	0.009	0.005 U	NA	NA
Trichlorofluoromethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/kg	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	NA
Xylene (Total)	mg/kg	0.005 U	0.005 U	0.008	0.005 U	0.005 U	NA	0.005 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
SVOCs								
1,2,4-Trichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.22 U	0.22 U	NA	NA	0.4 U	NA
2,4,6-Trichlorophenol	mg/kg	NA	0.06 U	0.06 U	NA	NA	0.4 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2,4-Dinitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	1.9 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.21 U	0.21 U	NA	NA	0.4 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.1 U	0.1 U	NA	NA	0.4 U	NA
2-Chloronaphthalene	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Chlorophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Methylnaphthalene	mg/kg	NA	0.12 U	0.4	NA	NA	0.4 U	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
2-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
2-Nitrophenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	0.83 U	0.83 U	NA	NA	0.79 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.11 U	0.11 U	NA	NA	0.79 U	NA
3-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	2 U	2 U	NA	NA	1.9 U	NA
4-Bromophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	1.3 U	1.3 U	NA	NA	0.79 U	NA
4-Chloroaniline	mg/kg	NA	0.33 U	0.33 U	NA	NA	0.79 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
4-Nitroaniline	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
4-Nitrophenol	mg/kg	NA	3.3 U	3.3 U	NA	NA	1.9 U	NA
Acenaphthene	mg/kg	NA	0.15 U	0.15 U	0.05 U	NA	0.4 UJ	0.67
Acenaphthylene	mg/kg	NA	0.07 U	0.07 U	0.05 U	NA	0.4 UJ	0.35
Anthracene	mg/kg	NA	0.41	0.43	0.08 U	NA	0.4 U	2.47
Benzo(a)anthracene	mg/kg	NA	1.76	1.65	0.008 U	NA	0.4 UJ	9.27
Benzo(a)pyrene	mg/kg	NA	1.91	1.88	0.02 U	NA	0.4 U	9.36
Benzo(b)fluoranthene	mg/kg	NA	2.24	2.03	0.01 U	NA	0.4 U	11.5
Benzo(g,h,i)perylene	mg/kg	NA	1.21	1.21	0.02 U	NA	0.4 U	4.63
Benzo(k)fluoranthene	mg/kg	NA	0.66	0.75	0.01 U	NA	0.4 U	3.95
Benzyl alcohol	mg/kg	NA	1.3 U	1.3 U	NA	NA	0.79 U	NA
bis(2chloro 1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	0.4 U	NA

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Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-6	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-7/KP-SB03	B-8/KP-SB10
	Field Sample ID:	B-6 (9-12)	B-7 (0-3)	B-7 (3-6)	B-7 (6-9)	B-7 (9-12)	KP-SB03(9-12)	B-8 (0-3)
	Sample Date	8/4/2010	8/4/2010	8/4/2010	8/4/2010	8/4/2010	5/29/2012	8/4/2010
	Depth Interval (ft bgs)	9- 12	0- 3	3- 6	6- 9	9- 12	9- 12	0- 3
bis(2-Chloroethoxy)methane	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
bis(2-Chloroethyl) ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	0.66 U	0.66 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Butylbenzylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Carbazole	mg/kg	NA	0.13 U	0.13 U	NA	NA	NA	NA
Chrysene	mg/kg	NA	1.95	1.53	0.05 U	NA	0.4 UJ	8.17
Dibenz(a,h)anthracene	mg/kg	NA	0.11 U	0.11 U	0.02 U	NA	0.4 U	0.35
Dibenzofuran	mg/kg	NA	0.22 U	0.22 U	NA	NA	0.4 U	NA
Diethylphthalate	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Dimethylphthalate	mg/kg	NA	3.3 U	3.3 U	NA	NA	0.4 U	NA
Di-n-butylphthalate	mg/kg	NA	0.5 U	0.5 U	NA	NA	0.4 U	NA
Di-n-octylphthalate	mg/kg	NA	0.86 U	0.86 U	NA	NA	0.4 U	NA
Fluoranthene	mg/kg	NA	3.38	3.25	0.05 U	NA	0.4 U	17.6
Fluorene	mg/kg	NA	0.14 U	0.14 U	0.03 U	NA	0.4 UJ	0.78
Hexachloro-1,3-butadiene	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Hexachlorobenzene	mg/kg	NA	0.07 U	0.07 U	NA	NA	0.4 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.17 U	0.17 U	NA	NA	0.4 U	NA
Hexachloroethane	mg/kg	NA	0.13 U	0.13 U	NA	NA	0.4 U	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.82	0.87	0.02 U	NA	0.4 U	4.29
Isophorone	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Naphthalene	mg/kg	NA	0.09 U	0.37	0.05 U	NA	0.4 U	0.41
Nitrobenzene	mg/kg	NA	0.24 U	0.24 U	NA	NA	0.4 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.02 U	0.02 U	NA	NA	0.4 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.67 U	0.67 U	NA	NA	0.4 U	NA
Pentachlorophenol	mg/kg	NA	0.03 U	0.03 U	NA	NA	1.9 U	NA
Phenanthrene	mg/kg	NA	2.25	2.51	0.03 U	NA	0.4 U	7.63
Phenol	mg/kg	NA	0.66 U	0.66 U	NA	NA	0.4 U	NA
Pyrene	mg/kg	NA	4.56	4.77	0.05 U	NA	0.4 U	15.2
Petroleum Hydrocarbons								
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
pH	SU	NA	NA	NA	NA	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA	NA
Total Inorganics								
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA	NA
TCPL Metals								
Arsenic, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Barium, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Cadmium, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Chromium, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Lead, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Mercury, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Selenium, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA
Silver, TCPL	mg/L	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
Pesticides								
4,4'-DDD	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	NA	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCBS								
PCB-1016 (Aroclor 1016)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	NA	NA	NA	NA	NA	NA
Herbicides								
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
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Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
VOCs								
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,1-Trichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1-Dichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,1-Dichloroethene	mg/kg	NA	NA	NA	0.35 J	0.18 J	0.32 J	0.081
1,1-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,3-Trichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	0.018 J	0.012 J	0.012 J	0.0062 U
1,2-Dibromoethane (EDB)	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,2-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	0.0061 J	0.004 J	0.0036 J	0.0062 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,3-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
1,4-Difluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
2-Butanone (MEK)	mg/kg	NA	NA	NA	0.022 U	0.024 U	0.022 U	0.031 U
2-Chlorotoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
2-Hexanone	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
4-Chlorotoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
4-Methyl-2-pentanone (MIBK)	mg/kg	NA	NA	NA	0.022 U	0.024 U	0.022 U	0.031 U
Acetone	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Acrolein	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Acrylonitrile	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Benzene	mg/kg	NA	NA	NA	0.0045 U	0.0015 J	0.0044 U	0.0062 U
Bromobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromochloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromodichloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromoform	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Bromomethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Carbon disulfide	mg/kg	NA	NA	NA	0.009 U	0.0095 U	0.0089 U	0.012 U
Carbon tetrachloride	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
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Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
Chlorobenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloroethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloroform	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Chloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	NA	NA	NA	2.6 J	0.28 J	6.3 J	0.19
cis-1,3-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dibromochloromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dibromomethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Dichlorodifluoromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Ethyl methacrylate	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Ethylbenzene	mg/kg	NA	NA	NA	0.008 J	0.0038 J	0.0056 J	0.0062 U
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Iodomethane	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Isopropylbenzene (Cumene)	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Methylene Chloride	mg/kg	NA	NA	NA	0.018 U	0.019 U	0.018 U	0.025 U
Methyl-tert-butyl ether	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Naphthalene, VOC	mg/kg	NA	NA	NA	0.0032 J	0.0039 J	0.0046 J	0.0062 U
n-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
n-Hexane	mg/kg	NA	NA	NA	0.013 J	0.0079 J	0.0098 J	0.0062 U
n-Propylbenzene	mg/kg	NA	NA	NA	0.0059 J	0.0029 J	0.0037 J	0.0062 U
Pentafluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
sec-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Styrene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
tert-Butylbenzene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Tetrachloroethene	mg/kg	NA	NA	NA	4.1 J	0.28 J	2.7 J	0.0061 J
Toluene	mg/kg	NA	NA	NA	0.036 J	0.016 J	0.033 J	0.0031 J
trans-1,2-Dichloroethene	mg/kg	NA	NA	NA	0.028 J	0.011 J	0.036 J	0.0058 J
trans-1,3-Dichloropropene	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
trans-1,4-Dichloro-2-butene	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Trichloroethene	mg/kg	NA	NA	NA	3,510 J	894 J	3,590 J	338
Trichlorofluoromethane	mg/kg	NA	NA	NA	0.0045 U	0.0047 U	0.0044 U	0.0062 U
Vinyl acetate	mg/kg	NA	NA	NA	0.09 U	0.095 U	0.089 U	0.12 U
Vinyl chloride	mg/kg	NA	NA	NA	0.088 J	0.41 J	0.38 J	0.23
Xylene (Total)	mg/kg	NA	NA	NA	0.033 J	0.011 J	0.022 J	0.012 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
SVOCs								
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	0.21	0.11	0.14	NA	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	0.52	0.36	0.36	NA	NA	NA	NA
Acenaphthylene	mg/kg	0.096	0.095	0.12	NA	NA	NA	NA
Anthracene	mg/kg	1.2	0.89	0.94	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	2.2	2.1	2.4	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	2	1.9	2.2	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	1.9	2.1	2.4	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	1.2	1.3	1.5	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	1.8	1.7	2	NA	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	B-8/KP-SB10	B-8/KP-SB10	B-8/KP-SB10	KP-SB04	KP-SB04	KP-SB05	KP-SB05
	Field Sample ID:	KP-SB10(12-14)	KP-SB10(12-14)D	KP-SB10(3-5)	KP-SB04(10-12)	KP-SB04(14-16)	KP-SB05(11-13)	KP-SB05(14-16)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	12- 14	12- 14	3- 5	10- 12	14- 16	11- 13	14- 16
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	2.5	2.4	2.8	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	0.66	0.66	0.77	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	5.1	4.7	5.2	NA	NA	NA	NA
Fluorene	mg/kg	0.67	0.43	0.44	NA	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	1.1	1.2	1.4	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	0.35	0.2	0.26	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	4.6	3.5	3.9	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	4.1	3.8	4.3	NA	NA	NA	NA
Petroleum Hydrocarbons								
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	NA	NA
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
pH	SU	NA	NA	NA	NA	NA	NA
Fractional Organic Carbon	%	NA	NA	NA	NA	NA	NA
Organic Carbon Content	%	NA	NA	NA	NA	NA	NA
Total Inorganics							
Aluminum	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA
Barium	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	mg/kg	NA	NA	NA	NA	NA	NA
Copper	mg/kg	NA	NA	NA	NA	NA	NA
Cyanide	mg/kg	NA	NA	NA	NA	NA	NA
Iron	mg/kg	NA	NA	NA	NA	NA	NA
Lead	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	mg/kg	NA	NA	NA	NA	NA	NA
Silver	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	mg/kg	NA	NA	NA	NA	NA	NA
TCLP Metals							
Arsenic, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Barium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Cadmium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Chromium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Lead, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Mercury, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Selenium, TCLP	mg/L	NA	NA	NA	NA	NA	NA
Silver, TCLP	mg/L	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
Pesticides							
4,4'-DDD	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDE	mg/kg	NA	NA	NA	NA	NA	NA
4,4'-DDT	mg/kg	NA	NA	NA	NA	NA	NA
Aldrin	mg/kg	NA	NA	NA	NA	NA	NA
alpha-BHC	mg/kg	NA	NA	NA	NA	NA	NA
beta-BHC	mg/kg	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	mg/kg	NA	NA	NA	NA	NA	NA
delta-BHC	mg/kg	NA	NA	NA	NA	NA	NA
Dieldrin	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan I	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan II	mg/kg	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	mg/kg	NA	NA	NA	NA	NA	NA
Endrin	mg/kg	NA	NA	NA	NA	NA	NA
Endrin aldehyde	mg/kg	NA	NA	NA	NA	NA	NA
Endrin ketone	mg/kg	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor	mg/kg	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	mg/kg	NA	NA	NA	NA	NA	NA
Methoxychlor	mg/kg	NA	NA	NA	NA	NA	NA
Toxaphene	mg/kg	NA	NA	NA	NA	NA	NA
PCBS							
PCB-1016 (Aroclor 1016)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1221 (Aroclor 1221)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1232 (Aroclor 1232)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1242 (Aroclor 1242)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1248 (Aroclor 1248)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1254 (Aroclor 1254)	mg/kg	NA	NA	NA	NA	NA	NA
PCB-1260 (Aroclor 1260)	mg/kg	NA	NA	NA	NA	NA	NA
Herbicides							
2,4,5-T	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	NA	NA	NA
2,4-D	mg/kg	NA	NA	NA	NA	NA	NA
Dalapon	mg/kg	NA	NA	NA	NA	NA	NA
Dinoseb	mg/kg	NA	NA	NA	NA	NA	NA
Picloram	mg/kg	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
VOCs							
1,1,1,2-Tetrachloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,1-Trichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1,2-Trichloroethane	mg/kg	0.0048 U	0.005 U	0.0041 J	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloroethene	mg/kg	1.2 J	0.26	0.013	0.0046 U	0.0045 U	0.0055 U
1,1-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,3-Trichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,3-Trichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2,4-Trimethylbenzene	mg/kg	0.05	0.028	0.0043 U	0.0046 U	4.1	0.06
1,2-Dibromoethane (EDB)	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.042	0.0028 J
1,2-Dichloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,2-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,3,5-Trimethylbenzene	mg/kg	0.018	0.011	0.0043 U	0.0046 U	0.035	0.012
1,3-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,3-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
1,4-Dichlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0084	0.0055 U
1,4-Difluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
2-Butanone (MEK)	mg/kg	0.024 U	0.025 U	0.021 U	0.023 U	0.022 U	0.046
2-Chlorotoluene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
2-Hexanone	mg/kg	0.27	0.099 U	0.085 U	0.093 U	0.31	0.11 U
4-Chlorotoluene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
4-Methyl-2-pentanone (MIBK)	mg/kg	0.024 U	0.025 U	0.021 U	0.023 U	0.022 U	0.027 U
Acetone	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.16	0.093 J
Acrolein	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Acrylonitrile	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Benzene	mg/kg	0.0048 U	0.0039 J	0.0043 U	0.0046 U	0.0036 J	0.0055 U
Bromobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromochloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromodichloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromoform	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Bromomethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Carbon disulfide	mg/kg	0.0096 U	0.0027 J	0.0085 U	0.0093 U	0.0089 U	0.011 U
Carbon tetrachloride	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
Chlorobenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.092	0.0062
Chloroethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloroform	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Chloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
cis-1,2-Dichloroethene	mg/kg	22.2	22.4	31.2	0.0046 U	0.0045 U	28.1
cis-1,3-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dibromochloromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dibromomethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Dichlorodifluoromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Ethyl methacrylate	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Ethylbenzene	mg/kg	0.018	0.0073	0.0043 U	0.0046 U	0.0034 J	0.0028 J
Hexachloro-1,3-butadiene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Iodomethane	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Isopropylbenzene (Cumene)	mg/kg	0.01	0.0036 J	0.0043 U	0.0046 U	0.041	0.0065
Methylene Chloride	mg/kg	0.019 U	0.02 U	0.017 U	0.019 U	0.018 U	0.022 U
Methyl-tert-butyl ether	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Naphthalene, VOC	mg/kg	0.0042 J	0.0027 J	0.0043 U	0.0046 U	0.039	0.004 J
n-Butylbenzene	mg/kg	0.0087	0.0032 J	0.0043 U	0.0046 U	0.048	0.0057
n-Hexane	mg/kg	0.047	0.043	0.0043 U	0.0046 U	0.5	0.05
n-Propylbenzene	mg/kg	0.012	0.0068	0.0043 U	0.0046 U	0.13	0.014
Pentafluorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	mg/kg	0.015	0.0043 J	0.0043 U	0.0046 U	0.034	0.0069
sec-Butylbenzene	mg/kg	0.0048	0.0027 J	0.0043 U	0.0046 U	0.03	0.0034 J
Styrene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
tert-Butylbenzene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Tetrachloroethene	mg/kg	3.8	0.82 J	0.0043 U	0.0046 U	0.0045 U	0.0027 J
Toluene	mg/kg	0.075	0.029	0.0043 U	0.0046 U	0.0027 J	0.0041 J
trans-1,2-Dichloroethene	mg/kg	0.18	0.12	0.12	0.0046 U	0.0045 U	0.0086
trans-1,3-Dichloropropene	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
trans-1,4-Dichloro-2-butene	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Trichloroethene	mg/kg	4,230	1,220	68.3	0.0046 U	0.0015 J	0.11
Trichlorofluoromethane	mg/kg	0.0048 U	0.005 U	0.0043 U	0.0046 U	0.0045 U	0.0055 U
Vinyl acetate	mg/kg	0.096 U	0.099 U	0.085 U	0.093 U	0.089 U	0.11 U
Vinyl chloride	mg/kg	0.58	0.49	2	0.0046 U	0.0045 U	0.14
Xylene (Total)	mg/kg	0.072	0.026	0.0085 U	0.0093 U	0.022	0.019

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
SVOCs							
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylphenol(o-Cresol)	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
3&4-Methylphenol(m&p Cresol)	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenylphenyl ether	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/kg	NA	NA	NA	NA	NA	NA
bis(2chloro1methylethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID	KP-SB06	KP-SB06	KP-SB07	KP-SB07	KP-SB08	KP-SB08
	Field Sample ID:	KP-SB06(10-12)	KP-SB06(14-16)	KP-SB07(8-10)	KP-SB07(14-16)	KP-SB08(4-6)	KP-SB08(15-17)
	Sample Date	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
	Depth Interval (ft bgs)	10- 12	14- 16	8- 10	14- 16	4- 6	15- 17
bis(2-Chloroethoxy)methane	mg/kg	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl) ether	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	mg/kg	NA	NA	NA	NA	NA	NA
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/kg	NA	NA	NA	NA	NA	NA
Diethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Dimethylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	mg/kg	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloro-1,3-butadiene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/kg	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Isophorone	mg/kg	NA	NA	NA	NA	NA	NA
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/kg	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/kg	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA
Phenol	mg/kg	NA	NA	NA	NA	NA	NA
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA
Petroleum Hydrocarbons							
TPH (C06-C10)	mg/kg	NA	NA	NA	NA	NA	5.5
TPH-DRO (C10-C28)	mg/kg	NA	NA	NA	NA	NA	31.6

Table D-1
Soil Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Notes:

% - Percent

D = Duplicate

ft bgs = Feet below ground surface

ID = Identification

J = Concentration estimated

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

NA = Not analyzed

PCB = Polychlorinated biphenyls

SU = Standard unit

SVOC = Semivolatile organic compound

TPH = Total petroleum hydrocarbons

U = Constituent not detected. Reporting limit presented.

VOC = Volatile organic compound

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-2/KP-MW02	TMW-2/KP-MW02	TMW-2/KP-MW02
	Field Sample ID:	TMW-1	TMW-1	KP-MW01-060112	TMW-2	TMW-2	KP-MW02-060112
	Sample Date:	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19
EXPLOSIVES							
2,4-DB	mg/L	NA	NA	NA	NA	NA	NA
Dicamba	mg/L	NA	NA	NA	NA	NA	NA
Dichlorprop	mg/L	NA	NA	NA	NA	NA	NA
MCPA	mg/L	NA	NA	NA	NA	NA	NA
MCPP	mg/L	NA	NA	NA	NA	NA	NA
TOTAL INORGANICS							
Aluminum	mg/L	0.47	NA	2.53	0.37	NA	1.31
Antimony	mg/L	0.006 U	NA	0.006 U	0.0064	NA	0.003 J
Arsenic	mg/L	0.004 U	NA	0.01 U	0.004 U	NA	0.01 U
Barium	mg/L	0.073	NA	0.0907 J	0.093	NA	0.096 J
Beryllium	mg/L	0.002 U	NA	0.004 U	0.002 U	NA	0.004 U
Cadmium	mg/L	0.002 U	NA	0.005 U	0.002 U	NA	0.005 U
Calcium	mg/L	160	NA	208	190	NA	166
Chromium	mg/L	0.004 U	NA	0.0084 J	0.004 U	NA	0.01 U
Cobalt	mg/L	0.004 U	NA	0.05 U	0.004 U	NA	0.05 U
Copper	mg/L	0.01 U	NA	0.02 U	0.01 U	NA	0.0232
Cyanide	mg/L	0.005 U	NA	0.01 U	0.005 U	NA	0.01 U
Iron	mg/L	1.4	NA	10.9	1.5	NA	6.7
Lead	mg/L	0.0032	NA	0.01 U	0.0025	NA	0.0093 J
Magnesium	mg/L	61	NA	140	110	NA	98.4
Manganese	mg/L	0.087	NA	0.835	0.8	NA	0.192
Mercury	mg/L	0.0002 U	NA	0.002 U	0.0002 U	NA	0.002 U
Nickel	mg/L	0.0055	NA	0.05 U	0.004 U	NA	0.05 U
Potassium	mg/L	14	NA	6.8	14	NA	9.42
Selenium	mg/L	0.004 U	NA	0.01 U	0.004 U	NA	0.01 U
Silver	mg/L	0.004 U	NA	0.05 U	0.004 U	NA	0.05 U
Sodium	mg/L	86	NA	39.2	290	NA	129
Thallium	mg/L	0.004 U	NA	0.002 U	0.004 U	NA	0.002 U
Vanadium	mg/L	0.004 U	NA	0.05 U	0.004 U	NA	0.05 U
Zinc	mg/L	0.02 U	NA	0.031 J	0.02 U	NA	0.05 U
PESTICIDES							
4,4'-DDD	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
4,4'-DDE	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
4,4'-DDT	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
Aldrin	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
alpha-BHC	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
alpha-Chlordane	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
beta-BHC	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-2/KP-MW02	TMW-2/KP-MW02	TMW-2/KP-MW02
	Field Sample ID:	TMW-1	TMW-1	KP-MW01-060112	TMW-2	TMW-2	KP-MW02-060112
	Sample Date:	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19
Chlordane (Technical)	mg/L	NA	NA	0.0011 U	NA	0.001 U	0.0011 U
delta-BHC	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
Dieldrin	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
Endosulfan I	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
Endosulfan II	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
Endosulfan sulfate	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
Endrin	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
Endrin aldehyde	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
Endrin ketone	mg/L	NA	NA	0.00011 U	NA	0.00005 U	0.00011 U
gamma-BHC (Lindane)	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
gamma-Chlordane	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
Heptachlor	mg/L	NA	NA	0.000087	NA	0.00005 U	0.000054 U
Heptachlor epoxide	mg/L	NA	NA	0.000057 U	NA	0.00005 U	0.000054 U
Methoxychlor	mg/L	NA	NA	0.00057 U	NA	0.00005 U	0.00054 U
Toxaphene	mg/L	NA	NA	0.0034 U	NA	0.001 U	0.0033 U
HERBICIDES							
2,4,5-T	mg/L	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	mg/L	NA	NA	NA	NA	NA	NA
2,4-D	mg/L	NA	NA	NA	NA	NA	NA
Dalapon	mg/L	NA	NA	NA	NA	NA	NA
Dinoseb	mg/L	NA	NA	NA	NA	NA	NA
Picloram	mg/L	NA	NA	NA	NA	NA	NA
PCBs							
PCB-1016 (Aroclor 1016)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
PCB-1221 (Aroclor 1221)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
PCB-1232 (Aroclor 1232)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
PCB-1242 (Aroclor 1242)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
PCB-1248 (Aroclor 1248)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
PCB-1254 (Aroclor 1254)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
PCB-1260 (Aroclor 1260)	mg/L	NA	NA	0.00052 U	NA	0.0005 U	0.00052 U
VOCs							
1,1,1,2-Tetrachloroethane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,1,1-Trichloroethane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
1,1,2-Trichloroethane	mg/L	0.0093	NA	0.005 U	2.5 U	NA	0.025 U
1,1-Dichloroethane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
1,1-Dichloroethene	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.02 J
1,1-Dichloropropene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,2,3-Trichlorobenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-2/KP-MW02	TMW-2/KP-MW02	TMW-2/KP-MW02
	Field Sample ID:	TMW-1	TMW-1	KP-MW01-060112	TMW-2	TMW-2	KP-MW02-060112
	Sample Date:	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19
1,2,3-Trichloropropane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,2,4-Trichlorobenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,2,4-Trimethylbenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,2-Dibromoethane (EDB)	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,2-Dichlorobenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,2-Dichloroethane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
1,2-Dichloropropane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
1,3,5-Trimethylbenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,3-Dichlorobenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,3-Dichloropropane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
1,4-Dichlorobenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
2,2-Dichloropropane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
2-Butanone (MEK)	mg/L	0.02 U	NA	0.025 U	10 U	NA	0.12 U
2-Chlorotoluene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
2-Hexanone	mg/L	0.02 U	NA	0.025 U	10 U	NA	0.12 U
4-Chlorotoluene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
4-Methyl-2-pentanone (MIBK)	mg/L	0.02 U	NA	0.025 U	10 U	NA	0.12 U
Acetone	mg/L	0.037	NA	0.1 U	10 U	NA	0.5 U
Acrolein	mg/L	NA	NA	0.05 U	NA	NA	0.25 U
Acrylonitrile	mg/L	NA	NA	0.1 U	NA	NA	0.5 U
Benzene	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Bromobenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Bromochloromethane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Bromodichloromethane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Bromoform	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Bromomethane	mg/L	0.01 U	NA	0.005 U	5 U	NA	0.025 U
Carbon disulfide	mg/L	0.01 U	NA	0.01 U	5 U	NA	0.05 U
Carbon tetrachloride	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Chlorobenzene	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Chloroethane	mg/L	0.01 U	NA	0.005 U	5 U	NA	0.025 U
Chloroform	mg/L	0.64	NA	0.0098	2.5 U	NA	0.025 U
Chloromethane	mg/L	0.01 U	NA	0.005 U	5 U	NA	0.025 U
cis-1,2-Dichloroethene	mg/L	0.9	NA	0.032	120	NA	2
cis-1,3-Dichloropropene	mg/L	0.001 U	NA	0.005 U	0.5 U	NA	0.025 U
Dibromochloromethane	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Dibromomethane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Dichlorodifluoromethane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Ethyl methacrylate	mg/L	NA	NA	0.1 U	NA	NA	0.5 U
Ethylbenzene	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-2/KP-MW02	TMW-2/KP-MW02	TMW-2/KP-MW02
	Field Sample ID:	TMW-1	TMW-1	KP-MW01-060112	TMW-2	TMW-2	KP-MW02-060112
	Sample Date:	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19
Hexachloro-1,3-butadiene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Iodomethane	mg/L	NA	NA	0.01 U	NA	NA	0.05 U
Isopropylbenzene (Cumene)	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Methylene Chloride	mg/L	0.0092	NA	0.005 U	2.5 U	NA	0.025 U
Methyl-tert-butyl ether	mg/L	0.005 U	NA	0.004 U	2.5 U	NA	0.02 U
Naphthalene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
n-Butylbenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
n-Propylbenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
p-Isopropyltoluene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
sec-Butylbenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Styrene	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
tert-Butylbenzene	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Tetrachloroethene	mg/L	0.005 U	NA	0.005 U	2.5 U	NA	0.025 U
Toluene	mg/L	0.015	NA	0.005 U	2.5 U	NA	0.025 U
trans-1,2-Dichloroethene	mg/L	0.045	NA	0.005 U	2.5 U	NA	0.038
trans-1,3-Dichloropropene	mg/L	0.001 U	NA	0.005 U	0.5 U	NA	0.025 U
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	0.1 U	NA	NA	0.5 U
Trichloroethene	mg/L	4	NA	0.22	270	NA	12.4
Trichlorofluoromethane	mg/L	NA	NA	0.005 U	NA	NA	0.025 U
Vinyl acetate	mg/L	NA	NA	0.05 U	NA	NA	0.25 U
Vinyl chloride	mg/L	0.12	NA	0.022	22	NA	0.34
Xylene (Total)	mg/L	0.015 U	NA	0.01 U	7.5 U	NA	0.05 U
SVOCs							
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	0.005 U	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	0.005 U	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	0.005 U	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	0.005 U	NA	NA
2,4,5-Trichlorophenol	mg/L	NA	NA	0.011 U	0.01 U	NA	0.01 U
2,4,6-Trichlorophenol	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
2,4-Dichlorophenol	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
2,4-Dimethylphenol	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
2,4-Dinitrophenol	mg/L	NA	NA	0.054 U	0.025 U	NA	0.052 U
2,4-Dinitrotoluene	mg/L	NA	NA	0.011 U	0.0001 U	NA	0.01 U
2,6-Dinitrotoluene	mg/L	NA	NA	0.011 U	0.0001 U	NA	0.01 U
2-Chloronaphthalene	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
2-Chlorophenol	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
2-Methylnaphthalene	mg/L	NA	NA	0.0011 U	0.005 U	NA	0.001 U
2-Methylphenol(o-Cresol)	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
2-Nitroaniline	mg/L	NA	NA	0.054 U	0.025 U	NA	0.052 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-2/KP-MW02	TMW-2/KP-MW02	TMW-2/KP-MW02
	Field Sample ID:	TMW-1	TMW-1	KP-MW01-060112	TMW-2	TMW-2	KP-MW02-060112
	Sample Date:	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19
2-Nitrophenol	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
3&4-Methylphenol(m&p Cresol)	mg/L	NA	NA	0.022 U	NA	NA	0.021 U
3,3'-Dichlorobenzidine	mg/L	NA	NA	0.022 U	0.01 U	NA	0.021 U
3-Nitroaniline	mg/L	NA	NA	0.054 U	0.025 U	NA	0.052 U
4,6-Dinitro-2-methylphenol	mg/L	NA	NA	0.054 U	0.025 U	NA	0.052 U
4-Bromophenylphenyl ether	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
4-Chloro-3-methylphenol	mg/L	NA	NA	0.022 U	0.005 U	NA	0.021 U
4-Chloroaniline	mg/L	NA	NA	0.022 U	0.005 U	NA	0.021 U
4-Chlorophenylphenyl ether	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
4-Methylphenol	mg/L	NA	NA	NA	0.005 U	NA	NA
4-Nitroaniline	mg/L	NA	NA	0.054 U	0.025 U	NA	0.052 U
4-Nitrophenol	mg/L	NA	NA	0.054 U	0.025 U	NA	0.052 U
Acenaphthene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U
Acenaphthylene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U
Aniline	mg/L	NA	NA	NA	0.005 U	NA	NA
Anthracene	mg/L	NA	0.001 U	0.00011 U	0.001 U	NA	0.0001 U
Benzidine	mg/L	NA	NA	NA	0.005 U	NA	NA
Benzo(a)anthracene	mg/L	NA	0.0001 U	0.00011 U	0.00011	NA	0.0001 U
Benzo(a)pyrene	mg/L	NA	0.0001 U	0.00011 U	0.0001 U	NA	0.0001 U
Benzo(b)fluoranthene	mg/L	NA	0.0001 U	0.00011 U	0.0001 U	NA	0.0001 U
Benzo(g,h,i)perylene	mg/L	NA	0.001 U	0.00011 U	0.001 U	NA	0.0001 U
Benzo(k)fluoranthene	mg/L	NA	0.0001 U	0.00011 U	0.0001 U	NA	0.0001 U
Benzoic acid	mg/L	NA	NA	NA	0.025 U	NA	NA
Benzyl alcohol	mg/L	NA	NA	0.022 U	0.005 U	NA	0.021 U
bis(2chloro1methylethyl) ether	mg/L	NA	NA	0.0054 U	0.005 U	NA	0.0052 U
bis(2-Chloroethoxy)methane	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
bis(2-Chloroethyl) ether	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	0.0048 J	0.005 U	NA	0.0052 U
Butylbenzylphthalate	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Carbazole	mg/L	NA	NA	NA	0.00022	NA	NA
Chrysene	mg/L	NA	0.0001 U	0.00054 U	0.00031	NA	0.00052 U
Dibenz(a,h)anthracene	mg/L	NA	0.0001 U	0.00011 U	0.0001 U	NA	0.0001 U
Dibenzofuran	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Diethylphthalate	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Dimethylphthalate	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Di-n-butylphthalate	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Di-n-octylphthalate	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Fluoranthene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U
Fluorene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-1/KP-MW01	TMW-2/KP-MW02	TMW-2/KP-MW02	TMW-2/KP-MW02
	Field Sample ID:	TMW-1	TMW-1	KP-MW01-060112	TMW-2	TMW-2	KP-MW02-060112
	Sample Date:	8/10/2010	8/17/2010	6/1/2012	8/10/2010	8/11/2010	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	8-18	8-18	8-18	9-19
Hexachloro-1,3-butadiene	mg/L	NA	NA	0.0054 U	0.005 U	NA	0.0052 U
Hexachlorobenzene	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Hexachlorocyclopentadiene	mg/L	NA	NA	0.022 U	0.005 U	NA	0.021 U
Hexachloroethane	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Indeno(1,2,3-cd)pyrene	mg/L	NA	0.0001 U	0.00011 U	0.0001 U	NA	0.0001 U
Isophorone	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Naphthalene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U
Nitrobenzene	mg/L	NA	NA	0.011 U	0.001 U	NA	0.01 U
N-Nitrosodimethylamine	mg/L	NA	NA	NA	0.005 U	NA	NA
N-Nitroso-di-n-propylamine	mg/L	NA	NA	0.011 U	0.0001 U	NA	0.01 U
N-Nitrosodiphenylamine	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Pentachlorophenol	mg/L	NA	NA	0.054 U	0.0001 U	NA	0.052 U
Phenanthrene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U
Phenol	mg/L	NA	NA	0.011 U	0.005 U	NA	0.01 U
Pyrene	mg/L	NA	0.001 U	0.0011 U	0.001 U	NA	0.001 U
Pyridine	mg/L	NA	NA	NA	0.014	NA	NA

Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID:	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03
	Field Sample ID:	TMW-3	TMW-3	TMW-3	KP-MW03-060112	KP-MW03-060112D
	Sample Date:	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	6-16	8-18	8-18
EXPLOSIVES						
2,4-DB	mg/L	NA	NA	0.0001 U	NA	NA
Dicamba	mg/L	NA	NA	0.0001 U	NA	NA
Dichlorprop	mg/L	NA	NA	0.0001 U	NA	NA
MCPA	mg/L	NA	NA	0.0001 U	NA	NA
MCCP	mg/L	NA	NA	0.0001 U	NA	NA
TOTAL INORGANICS						
Aluminum	mg/L	NA	NA	NA	1 U	1 U
Antimony	mg/L	NA	NA	NA	0.006 U	0.006 U
Arsenic	mg/L	0.004 U	NA	NA	0.01 U	0.01 U
Barium	mg/L	0.098	NA	NA	0.056 J	0.047 J
Beryllium	mg/L	NA	NA	NA	0.004 U	0.004 U
Cadmium	mg/L	0.002 U	NA	NA	0.005 U	0.005 U
Calcium	mg/L	NA	NA	NA	211	215
Chromium	mg/L	0.004 U	NA	NA	0.01 U	0.01 U
Cobalt	mg/L	NA	NA	NA	0.05 U	0.05 U
Copper	mg/L	NA	NA	NA	0.02 U	0.02 U
Cyanide	mg/L	NA	NA	NA	0.01 U	0.01 U
Iron	mg/L	NA	NA	NA	2.03	1.91
Lead	mg/L	0.0025	NA	NA	0.01 U	0.01 U
Magnesium	mg/L	NA	NA	NA	160	156
Manganese	mg/L	NA	NA	NA	1	1.03
Mercury	mg/L	0.0002 U	NA	NA	0.002 U	0.002 U
Nickel	mg/L	NA	NA	NA	0.05 U	0.05 U
Potassium	mg/L	NA	NA	NA	1.8	1.57
Selenium	mg/L	0.004 U	NA	NA	0.01 U	0.01 U
Silver	mg/L	0.004 U	NA	NA	0.05 U	0.05 U
Sodium	mg/L	NA	NA	NA	40.6	36.9
Thallium	mg/L	NA	NA	NA	0.002 U	0.002 U
Vanadium	mg/L	NA	NA	NA	0.05 U	0.05 U
Zinc	mg/L	NA	NA	NA	0.0208 J	0.0506
PESTICIDES						
4,4'-DDD	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
4,4'-DDE	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
4,4'-DDT	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
Aldrin	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
alpha-BHC	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
alpha-Chlordane	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
beta-BHC	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U

Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Chemical Name	Location ID:	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03
	Field Sample ID:	TMW-3	TMW-3	TMW-3	KP-MW03-060112	KP-MW03-060112D
	Sample Date:	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	6-16	8-18	8-18
Chlordane (Technical)	mg/L	NA	0.001 U	NA	0.0011 U	0.0011 U
delta-BHC	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
Dieldrin	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
Endosulfan I	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
Endosulfan II	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
Endosulfan sulfate	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
Endrin	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
Endrin aldehyde	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
Endrin ketone	mg/L	NA	0.00005 U	NA	0.00011 U	0.00011 U
gamma-BHC (Lindane)	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
gamma-Chlordane	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
Heptachlor	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
Heptachlor epoxide	mg/L	NA	0.00005 U	NA	0.000055 U	0.000054 U
Methoxychlor	mg/L	NA	0.00005 U	NA	0.00055 U	0.00054 U
Toxaphene	mg/L	NA	0.001 U	NA	0.0033 U	0.0033 U
HERBICIDES						
2,4,5-T	mg/L	NA	NA	0.0001 U	NA	NA
2,4,5-TP (Silvex)	mg/L	NA	NA	0.0001 U	NA	NA
2,4-D	mg/L	NA	NA	0.0002 U	NA	NA
Dalapon	mg/L	NA	NA	0.001 U	NA	NA
Dinoseb	mg/L	NA	NA	0.0003 U	NA	NA
Picloram	mg/L	NA	NA	0.0001 U	NA	NA
PCBs						
PCB-1016 (Aroclor 1016)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
PCB-1221 (Aroclor 1221)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
PCB-1232 (Aroclor 1232)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
PCB-1242 (Aroclor 1242)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
PCB-1248 (Aroclor 1248)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
PCB-1254 (Aroclor 1254)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
PCB-1260 (Aroclor 1260)	mg/L	NA	0.0005 U	NA	0.00052 U	0.00053 U
VOCs						
1,1,1,2-Tetrachloroethane	mg/L	NA	NA	NA	0.005 U	0.005 U
1,1,1-Trichloroethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,1-Dichloroethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,1-Dichloroethene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,1-Dichloropropene	mg/L	NA	NA	NA	0.005 U	0.005 U
1,2,3-Trichlorobenzene	mg/L	NA	NA	NA	0.005 U	0.01

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03
	Field Sample ID:	TMW-3	TMW-3	TMW-3	KP-MW03-060112	KP-MW03-060112D
	Sample Date:	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	6-16	8-18	8-18
1,2,3-Trichloropropane	mg/L	NA	NA	NA	0.005 U	0.005 U
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
1,2-Dibromoethane (EDB)	mg/L	NA	NA	NA	0.005 U	0.005 U
1,2-Dichlorobenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
1,2-Dichloroethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,2-Dichloropropane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
1,3-Dichlorobenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
1,3-Dichloropropane	mg/L	NA	NA	NA	0.005 U	0.005 U
1,4-Dichlorobenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
2,2-Dichloropropane	mg/L	NA	NA	NA	0.005 U	0.005 U
2-Butanone (MEK)	mg/L	0.02 U	NA	NA	0.025 U	0.025 U
2-Chlorotoluene	mg/L	NA	NA	NA	0.005 U	0.005 U
2-Hexanone	mg/L	0.02 U	NA	NA	0.025 U	0.025 U
4-Chlorotoluene	mg/L	NA	NA	NA	0.005 U	0.005 U
4-Methyl-2-pentanone (MIBK)	mg/L	0.02 U	NA	NA	0.025 U	0.025 U
Acetone	mg/L	0.02 U	NA	NA	0.1 U	0.1 U
Acrolein	mg/L	NA	NA	NA	0.05 U	0.05 U
Acrylonitrile	mg/L	NA	NA	NA	0.1 U	0.1 U
Benzene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Bromobenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
Bromochloromethane	mg/L	NA	NA	NA	0.005 U	0.005 U
Bromodichloromethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Bromoform	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Bromomethane	mg/L	0.01 U	NA	NA	0.005 U	0.005 U
Carbon disulfide	mg/L	0.01 U	NA	NA	0.01 U	0.01 U
Carbon tetrachloride	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Chlorobenzene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Chloroethane	mg/L	0.01 U	NA	NA	0.005 U	0.005 U
Chloroform	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Chloromethane	mg/L	0.01 U	NA	NA	0.005 U	0.005 U
cis-1,2-Dichloroethene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
cis-1,3-Dichloropropene	mg/L	0.001 U	NA	NA	0.005 U	0.005 U
Dibromochloromethane	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Dibromomethane	mg/L	NA	NA	NA	0.005 U	0.005 U
Dichlorodifluoromethane	mg/L	NA	NA	NA	0.005 U	0.005 U
Ethyl methacrylate	mg/L	NA	NA	NA	0.1 U	0.1 U
Ethylbenzene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03
	Field Sample ID:	TMW-3	TMW-3	TMW-3	KP-MW03-060112	KP-MW03-060112D
	Sample Date:	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	6-16	8-18	8-18
Hexachloro-1,3-butadiene	mg/L	NA	NA	NA	0.005 U	0.005 U
Iodomethane	mg/L	NA	NA	NA	0.01 U	0.01 U
Isopropylbenzene (Cumene)	mg/L	NA	NA	NA	0.005 U	0.005 U
Methylene Chloride	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Methyl-tert-butyl ether	mg/L	0.005 U	NA	NA	0.004 U	0.004 U
Naphthalene	mg/L	NA	NA	NA	0.005 U	0.005 U
n-Butylbenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
n-Propylbenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
p-Isopropyltoluene	mg/L	NA	NA	NA	0.005 U	0.005 U
sec-Butylbenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
Styrene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
tert-Butylbenzene	mg/L	NA	NA	NA	0.005 U	0.005 U
Tetrachloroethene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
Toluene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/L	0.005 U	NA	NA	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/L	0.001 U	NA	NA	0.005 U	0.005 U
trans-1,4-Dichloro-2-butene	mg/L	NA	NA	NA	0.1 U	0.1 U
Trichloroethene	mg/L	0.0056	NA	NA	0.0042 J	0.0038 J
Trichlorofluoromethane	mg/L	NA	NA	NA	0.005 U	0.005 U
Vinyl acetate	mg/L	NA	NA	NA	0.05 U	0.05 U
Vinyl chloride	mg/L	0.002 U	NA	NA	0.002 U	0.002 U
Xylene (Total)	mg/L	0.015 U	NA	NA	0.01 U	0.01 U
SVOCs						
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	mg/L	NA	NA	NA	0.01 U	0.01 U
2,4,6-Trichlorophenol	mg/L	NA	NA	NA	0.01 U	0.01 U
2,4-Dichlorophenol	mg/L	NA	NA	NA	0.01 U	0.01 U
2,4-Dimethylphenol	mg/L	NA	NA	NA	0.01 U	0.01 U
2,4-Dinitrophenol	mg/L	NA	NA	NA	0.052 U	0.052 U
2,4-Dinitrotoluene	mg/L	NA	NA	NA	0.01 U	0.01 U
2,6-Dinitrotoluene	mg/L	NA	NA	NA	0.01 U	0.01 U
2-Chloronaphthalene	mg/L	NA	NA	NA	0.01 U	0.01 U
2-Chlorophenol	mg/L	NA	NA	NA	0.01 U	0.01 U
2-Methylnaphthalene	mg/L	NA	NA	NA	0.001 U	0.001 U
2-Methylphenol(o-Cresol)	mg/L	NA	NA	NA	0.01 U	0.01 U
2-Nitroaniline	mg/L	NA	NA	NA	0.052 U	0.052 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03
	Field Sample ID:	TMW-3	TMW-3	TMW-3	KP-MW03-060112	KP-MW03-060112D
	Sample Date:	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	6-16	8-18	8-18
2-Nitrophenol	mg/L	NA	NA	NA	0.01 U	0.01 U
3&4-Methylphenol(m&p Cresol)	mg/L	NA	NA	NA	0.021 U	0.021 U
3,3'-Dichlorobenzidine	mg/L	NA	NA	NA	0.021 U	0.021 U
3-Nitroaniline	mg/L	NA	NA	NA	0.052 U	0.052 U
4,6-Dinitro-2-methylphenol	mg/L	NA	NA	NA	0.052 U	0.052 U
4-Bromophenylphenyl ether	mg/L	NA	NA	NA	0.01 U	0.01 U
4-Chloro-3-methylphenol	mg/L	NA	NA	NA	0.021 U	0.021 U
4-Chloroaniline	mg/L	NA	NA	NA	0.021 U	0.021 U
4-Chlorophenylphenyl ether	mg/L	NA	NA	NA	0.01 U	0.01 U
4-Methylphenol	mg/L	NA	NA	NA	NA	NA
4-Nitroaniline	mg/L	NA	NA	NA	0.052 U	0.052 U
4-Nitrophenol	mg/L	NA	NA	NA	0.052 U	0.052 U
Acenaphthene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U
Acenaphthylene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U
Aniline	mg/L	NA	NA	NA	NA	NA
Anthracene	mg/L	0.001 U	NA	NA	0.0001 U	0.0001 U
Benzidine	mg/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/L	0.0001 U	NA	NA	0.0001 U	0.0001 U
Benzo(a)pyrene	mg/L	0.0001 U	NA	NA	0.0001 U	0.0001 U
Benzo(b)fluoranthene	mg/L	0.0001 U	NA	NA	0.0001 U	0.0001 U
Benzo(g,h,i)perylene	mg/L	0.001 U	NA	NA	0.0001 U	0.0001 U
Benzo(k)fluoranthene	mg/L	0.0001 U	NA	NA	0.0001 U	0.0001 U
Benzoic acid	mg/L	NA	NA	NA	NA	NA
Benzyl alcohol	mg/L	NA	NA	NA	0.021 U	0.021 U
bis(2chloro 1methylethyl) ether	mg/L	NA	NA	NA	0.0052 U	0.0052 U
bis(2-Chloroethoxy)methane	mg/L	NA	NA	NA	0.01 U	0.01 U
bis(2-Chloroethyl) ether	mg/L	NA	NA	NA	0.01 U	0.01 U
bis(2-Ethylhexyl)phthalate	mg/L	NA	NA	NA	0.0052 U	0.0052 U
Butylbenzylphthalate	mg/L	NA	NA	NA	0.01 U	0.01 U
Carbazole	mg/L	NA	NA	NA	NA	NA
Chrysene	mg/L	0.0001 U	NA	NA	0.00052 U	0.00052 U
Dibenz(a,h)anthracene	mg/L	0.0001 U	NA	NA	0.0001 U	0.0001 U
Dibenzofuran	mg/L	NA	NA	NA	0.01 U	0.01 U
Diethylphthalate	mg/L	NA	NA	NA	0.01 U	0.01 U
Dimethylphthalate	mg/L	NA	NA	NA	0.01 U	0.01 U
Di-n-butylphthalate	mg/L	NA	NA	NA	0.01 U	0.01 U
Di-n-octylphthalate	mg/L	NA	NA	NA	0.01 U	0.01 U
Fluoranthene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U
Fluorene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U

**Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois**

Chemical Name	Location ID:	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03	TMW-3/KP-MW03
	Field Sample ID:	TMW-3	TMW-3	TMW-3	KP-MW03-060112	KP-MW03-060112D
	Sample Date:	8/10/2010	8/11/2010	8/17/2010	6/1/2012	6/1/2012
	Screen Depth (ft bgs)	6-16	6-16	6-16	8-18	8-18
Hexachloro-1,3-butadiene	mg/L	NA	NA	NA	0.0052 U	0.0052 U
Hexachlorobenzene	mg/L	NA	NA	NA	0.01 U	0.01 U
Hexachlorocyclopentadiene	mg/L	NA	NA	NA	0.021 U	0.021 U
Hexachloroethane	mg/L	NA	NA	NA	0.01 U	0.01 U
Indeno(1,2,3-cd)pyrene	mg/L	0.0001 U	NA	NA	0.0001 U	0.0001 U
Isophorone	mg/L	NA	NA	NA	0.01 U	0.01 U
Naphthalene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U
Nitrobenzene	mg/L	NA	NA	NA	0.01 U	0.01 U
N-Nitrosodimethylamine	mg/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	mg/L	NA	NA	NA	0.01 U	0.01 U
N-Nitrosodiphenylamine	mg/L	NA	NA	NA	0.01 U	0.01 U
Pentachlorophenol	mg/L	NA	NA	NA	0.052 U	0.052 U
Phenanthrene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U
Phenol	mg/L	NA	NA	NA	0.01 U	0.01 U
Pyrene	mg/L	0.001 U	NA	NA	0.001 U	0.001 U
Pyridine	mg/L	NA	NA	NA	NA	NA

Table D-2
Groundwater Analytical Results
Kimball Avenue Park - 1807-15 North Kimball Avenue
Chicago, Cook County, Illinois

Notes:

D = Duplicate

ID - Identification

J = Concentration estimated

mg/L = Milligrams per liter

NA = Not analyzed

PCB = Polychlorinated biphenyls

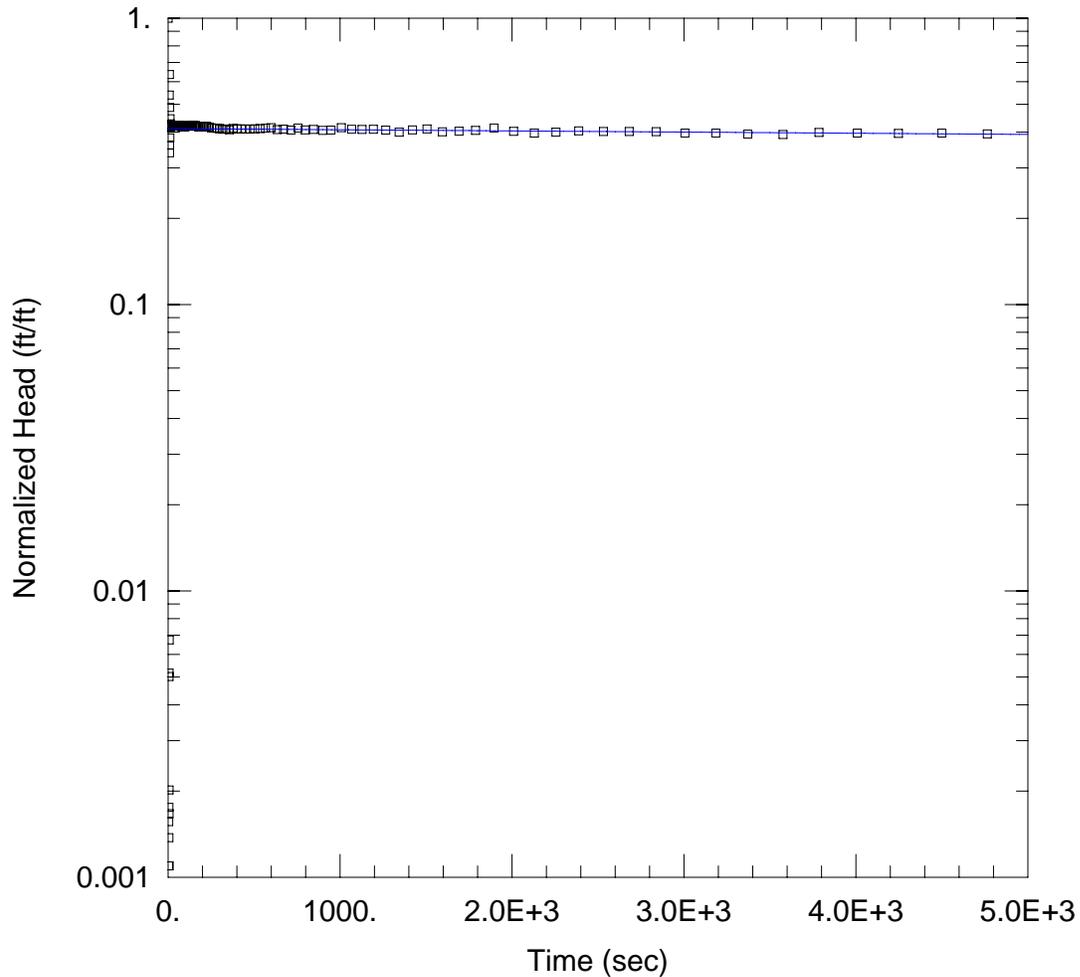
SVOC = Semivolatile organic compound

U = Constituent not detected. Reporting limit presented.

VOC = Volatile organic compound

APPENDIX E
LABORATORY DATA AND DATA VALIDATION REPORTS
(Laboratory Analytical Results Presented In CD Copy Only)

APPENDIX F
AQUIFER TEST ANALYSES



MW-02 FALLING HEAD TEST

Data Set: K:\...\MW-2(Kimball)Fall.aqt
 Date: 06/26/12

Time: 12:51:16

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 11.81 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01)

Initial Displacement: 4.023 ft
 Total Well Penetration Depth: 11.81 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 11.81 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
 K = 3.741E-7 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.656 ft

Data Set: K:\EPA\EPA R5 START3\Site Files\Brownfields - Bloomingdale Trail\Kimbal Field Documents\Slug Test\M
 Title: MW-02 Falling Head Test
 Date: 06/26/12
 Time: 12:51:29

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 11.81 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-01

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 4.023 ft
 Static Water Column Height: 11.81 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.083 ft
 Well Skin Radius: 0.33 ft
 Screen Length: 10. ft
 Total Well Penetration Depth: 11.81 ft

No. of Observations: 140

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.25	-0.002486	90.	1.678
0.5	-0.001874	94.8	1.678
0.75	-0.003499	100.8	1.685
1.	-0.004315	106.8	1.689
1.25	-0.001961	112.8	1.692
1.5	-0.003579	119.4	1.695
1.75	-0.004244	126.6	1.692
2.	-0.003183	134.4	1.688
2.25	-0.002822	142.2	1.694
2.5	-0.004852	150.6	1.694
2.75	0.000777	159.6	1.696
3.215	-0.003034	169.2	1.689
3.435	-0.002063	178.8	1.679
3.656	-0.002396	189.6	1.677
4.077	0.006293	201.	1.681
4.299	0.003978	213.	1.684
4.523	0.0038	225.6	1.682
4.742	0.007059	238.8	1.676
4.961	0.004411	253.2	1.665
5.18	0.004411	268.2	1.662
5.399	0.005528	283.8	1.659
5.618	0.006704	300.6	1.656
5.838	0.00812	318.6	1.646
6.058	0.02021	337.2	1.652
6.36	0.02077	357.6	1.639
6.72	0.02712	378.6	1.658
7.14	2.168	400.8	1.653
7.56	4.023	425.3	1.651
7.98	2.558	450.	1.65
8.46	1.45	476.4	1.65
9.	1.363	504.6	1.652

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
9.48	1.961	534.6	1.655
10.08	1.704	566.4	1.66
10.68	1.537	600.	1.667
11.28	1.791	636.	1.642
11.94	1.678	672.	1.648
12.66	1.668	714.	1.637
13.44	1.719	756.	1.663
14.22	1.676	798.	1.639
15.06	1.713	846.	1.645
15.96	1.688	900.	1.632
16.92	1.702	948.	1.637
17.88	1.698	1008.	1.667
18.96	1.702	1068.	1.647
20.1	1.702	1128.	1.645
21.3	1.702	1194.	1.646
22.56	1.7	1266.	1.635
23.88	1.701	1344.	1.61
25.32	1.7	1422.	1.637
26.82	1.7	1506.	1.65
28.38	1.7	1596.	1.613
30.06	1.699	1692.	1.622
31.86	1.698	1788.	1.632
33.72	1.695	1896.	1.663
35.76	1.692	2010.	1.618
37.86	1.689	2130.	1.596
40.08	1.689	2256.	1.609
42.48	1.688	2388.	1.626
45.	1.69	2532.	1.616
47.64	1.69	2682.	1.617
50.46	1.69	2838.	1.615
53.46	1.692	3006.	1.597
56.64	1.692	3186.	1.597
60.	1.696	3372.	1.584
63.6	1.699	3576.	1.579
67.2	1.698	3786.	1.604
71.4	1.692	4008.	1.597
75.6	1.688	4248.	1.592
79.8	1.682	4500.	1.597
84.6	1.682	4764.	1.586

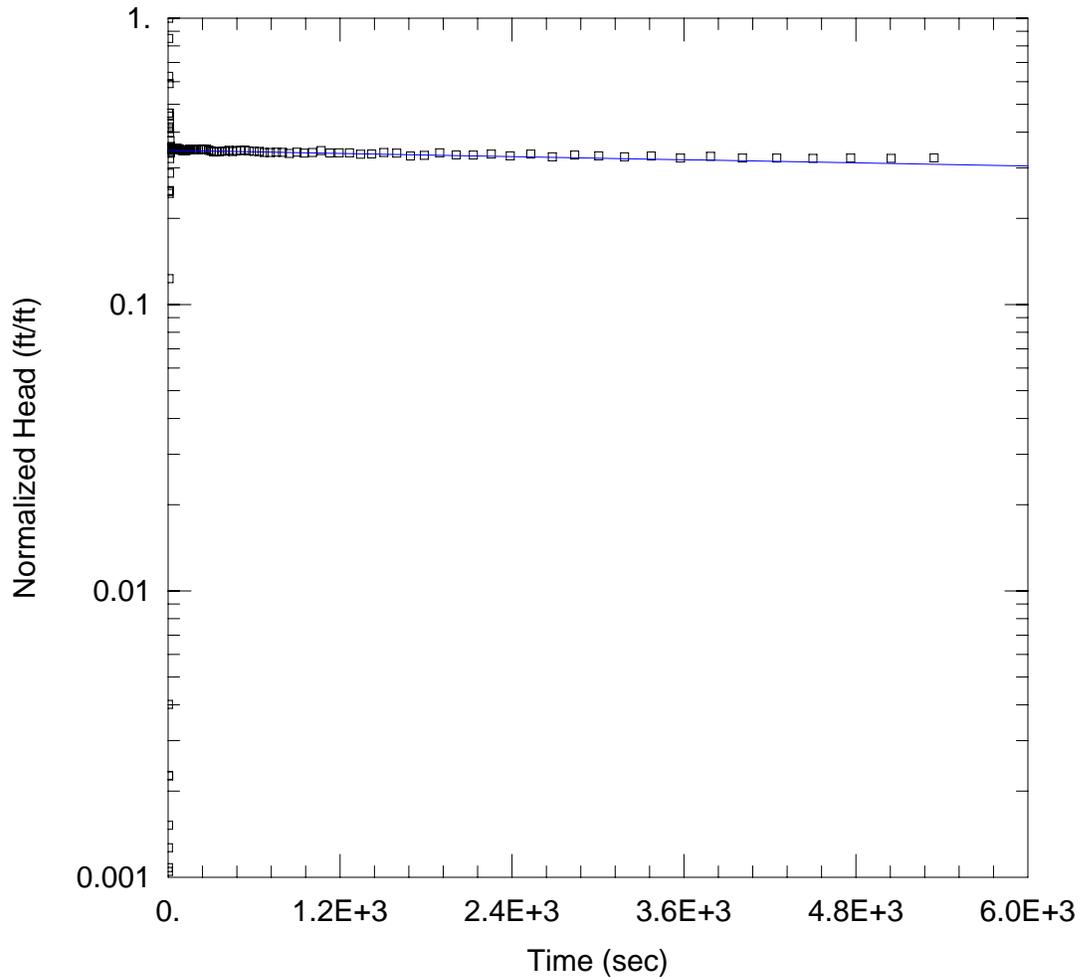
SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.803

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	3.741E-7	cm/sec
y0	1.656	ft

$$T = K \cdot b = 0.0001347 \text{ cm}^2/\text{sec}$$



MW-02 RISING HEAD TEST

Data Set: K:\...\MW-2(Kimball)Rise.aqt

Date: 06/26/12

Time: 12:51:49

PROJECT INFORMATION

Company: WESTON

Client: U.S. EPA

Location: Kimball Field

Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 11.81 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01)

Initial Displacement: -4.863 ft

Static Water Column Height: 11.81 ft

Total Well Penetration Depth: 11.81 ft

Screen Length: 10. ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 8.359E-7 cm/sec

y0 = -1.679 ft

Data Set: K:\EPA\EPA R5 START3\Site Files\Brownfields - Bloomingdale Trail\Kimbal Field Documents\Slug Test\M
 Title: MW-02 Rising Head Test
 Date: 06/26/12
 Time: 12:52:00

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-2

AQUIFER DATA

Saturated Thickness: 11.81 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-01

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: -4.863 ft
 Static Water Column Height: 11.81 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.083 ft
 Well Skin Radius: 0.33 ft
 Screen Length: 10. ft
 Total Well Penetration Depth: 11.81 ft

No. of Observations: 142

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.251	-0.001182	94.8	-1.682
0.501	-0.001033	100.8	-1.679
0.751	-0.003562	106.8	-1.681
1.001	-0.002703	112.8	-1.678
1.251	-0.004175	119.4	-1.675
1.501	-0.004184	126.6	-1.68
1.751	-0.002515	134.4	-1.682
2.001	-0.003379	142.2	-1.686
2.251	-0.004748	150.6	-1.693
2.501	-0.005097	159.6	-1.696
2.751	-0.01951	169.2	-1.689
3.001	-0.006167	178.8	-1.685
3.251	-0.005252	189.6	-1.686
3.501	0.002807	201.	-1.688
3.751	0.002143	213.	-1.685
4.001	-0.007381	225.6	-1.693
4.251	-0.01104	238.8	-1.699
4.501	-0.01098	253.2	-1.698
4.751	-1.207	268.2	-1.695
5.001	-3.048	283.8	-1.68
5.251	-4.863	300.6	-1.675
5.501	-4.132	318.6	-1.659
5.751	-2.029	337.2	-1.656
6.001	0.2538	357.6	-1.666
6.361	-2.266	378.6	-1.671
6.721	-2.874	400.8	-1.668
7.141	-0.5989	425.3	-1.681
7.561	-2.267	450.	-1.663
7.981	-2.	476.4	-1.679
8.461	-1.188	504.6	-1.674
9.001	-2.211	534.6	-1.686

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
9.481	-1.216	566.4	-1.671
10.08	-2.093	600.	-1.666
10.68	-1.398	636.4	-1.665
11.28	-1.938	672.	-1.651
11.94	-1.573	714.	-1.65
12.66	-1.684	756.4	-1.655
13.44	-1.813	798.	-1.653
14.22	-1.64	846.4	-1.638
15.06	-1.654	900.	-1.656
15.96	-1.725	948.	-1.643
16.92	-1.733	1008.	-1.652
17.88	-1.713	1068.	-1.675
18.96	-1.704	1128.	-1.644
20.1	-1.702	1194.	-1.647
21.3	-1.705	1266.4	-1.646
22.56	-1.706	1344.	-1.628
23.88	-1.704	1422.	-1.631
25.32	-1.702	1506.4	-1.651
26.82	-1.702	1596.4	-1.641
28.38	-1.704	1692.	-1.605
30.06	-1.702	1788.	-1.612
31.86	-1.697	1896.4	-1.646
33.72	-1.701	2010.	-1.62
35.76	-1.703	2130.	-1.618
37.86	-1.705	2256.4	-1.63
40.08	-1.706	2388.	-1.607
42.48	-1.704	2532.	-1.629
45.	-1.705	2682.	-1.596
47.64	-1.703	2838.	-1.616
50.46	-1.704	3006.4	-1.608
53.46	-1.704	3186.4	-1.595
56.64	-1.703	3372.	-1.604
60.	-1.702	3576.4	-1.579
63.6	-1.703	3786.	-1.602
67.2	-1.703	4008.	-1.579
71.4	-1.7	4248.	-1.579
75.6	-1.698	4500.	-1.575
79.8	-1.693	4764.	-1.578
84.6	-1.689	5046.	-1.574
90.	-1.685	5346.	-1.58

SOLUTION

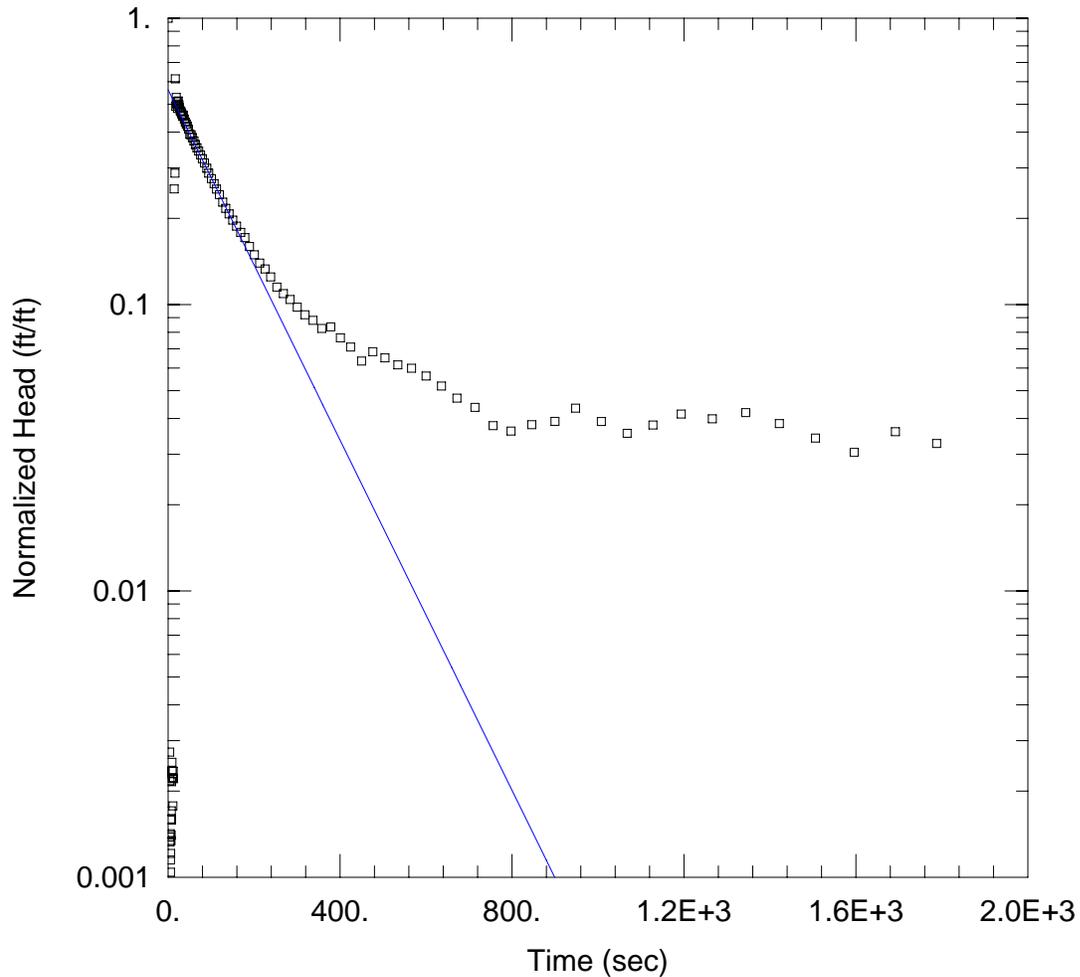
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.803

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	8.359E-7	cm/sec
y0	-1.679	ft

$T = K \cdot b = 0.0003009 \text{ cm}^2/\text{sec}$



MW-03 FALLING HEAD TEST

Data Set: K:\...\MW-3(Kimball)Fall.aqt
 Date: 06/26/12

Time: 12:52:40

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 11.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01)

Initial Displacement: 2.682 ft
 Total Well Penetration Depth: 11.3 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 11.3 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.000279 cm/sec

Solution Method: Bouwer-Rice
 y0 = 1.507 ft

Data Set: K:\EPA\EPA R5 START3\Site Files\Brownfields - Bloomingdale Trail\Kimbal Field Documents\Slug Test\M
 Title: MW-03 Falling Head Test
 Date: 06/26/12
 Time: 12:52:55

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 11.3 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-01

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: 2.682 ft
 Static Water Column Height: 11.3 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.083 ft
 Well Skin Radius: 0.33 ft
 Screen Length: 10. ft
 Total Well Penetration Depth: 11.3 ft

No. of Observations: 123

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.251	0.000167	56.64	1.027
0.501	1.5E-5	60.	1.
0.751	0.000167	63.6	0.9703
1.001	-0.000289	67.2	0.9458
1.251	-0.000648	71.4	0.9218
1.501	-0.000126	75.6	0.8929
1.751	-0.00028	79.8	0.8658
2.001	0.001101	84.6	0.8372
2.251	0.000134	90.	0.8022
2.501	0.001147	94.8	0.771
2.751	0.002114	100.8	0.738
3.001	0.001706	107.1	0.709
3.251	0.002268	112.8	0.6784
3.501	-0.00114	119.4	0.6486
3.751	0.001658	127.1	0.6107
4.001	0.007335	134.4	0.5813
4.466	0.005824	142.2	0.5555
4.687	0.003565	150.6	0.5286
4.907	0.002015	159.6	0.5037
5.151	0.003705	169.2	0.4788
5.374	0.003806	178.8	0.4592
5.596	0.00308	189.6	0.4274
5.818	0.002793	201.	0.4001
6.039	0.003249	213.	0.3743
6.36	0.004285	225.6	0.3569
6.72	0.003603	238.8	0.3349
7.14	0.003757	253.2	0.3085
7.56	0.004574	268.2	0.2929
7.98	0.004251	283.8	0.2793
8.46	0.005779	300.6	0.2625
9.	0.006755	318.6	0.2469

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
9.48	0.006288	337.2	0.2362
10.08	0.005943	357.6	0.2214
10.68	0.005981	378.6	0.2241
11.28	0.004759	400.8	0.2051
11.94	0.006288	424.8	0.1905
12.66	0.005927	450.	0.1703
13.44	-0.02637	476.4	0.1835
14.22	0.6794	504.6	0.1747
15.06	2.682	534.6	0.165
15.96	0.7716	566.4	0.1607
16.92	1.647	600.	0.1509
17.88	1.321	636.	0.1393
18.96	1.418	672.	0.1263
20.1	1.345	714.	0.1173
21.3	1.369	756.	0.1012
22.56	1.298	798.	0.09698
23.88	1.378	846.	0.102
25.32	1.336	900.	0.1048
26.82	1.31	948.	0.1165
28.38	1.273	1008.	0.1047
30.06	1.263	1068.	0.0952
31.86	1.243	1128.	0.1018
33.72	1.217	1194.	0.1112
35.76	1.23	1266.	0.1069
37.86	1.189	1344.	0.1125
40.08	1.162	1422.	0.1029
42.48	1.145	1506.	0.0917
45.	1.125	1596.	0.08171
47.64	1.099	1692.	0.0965
50.46	1.055	1788.	0.08779
53.46	1.049		

SOLUTION

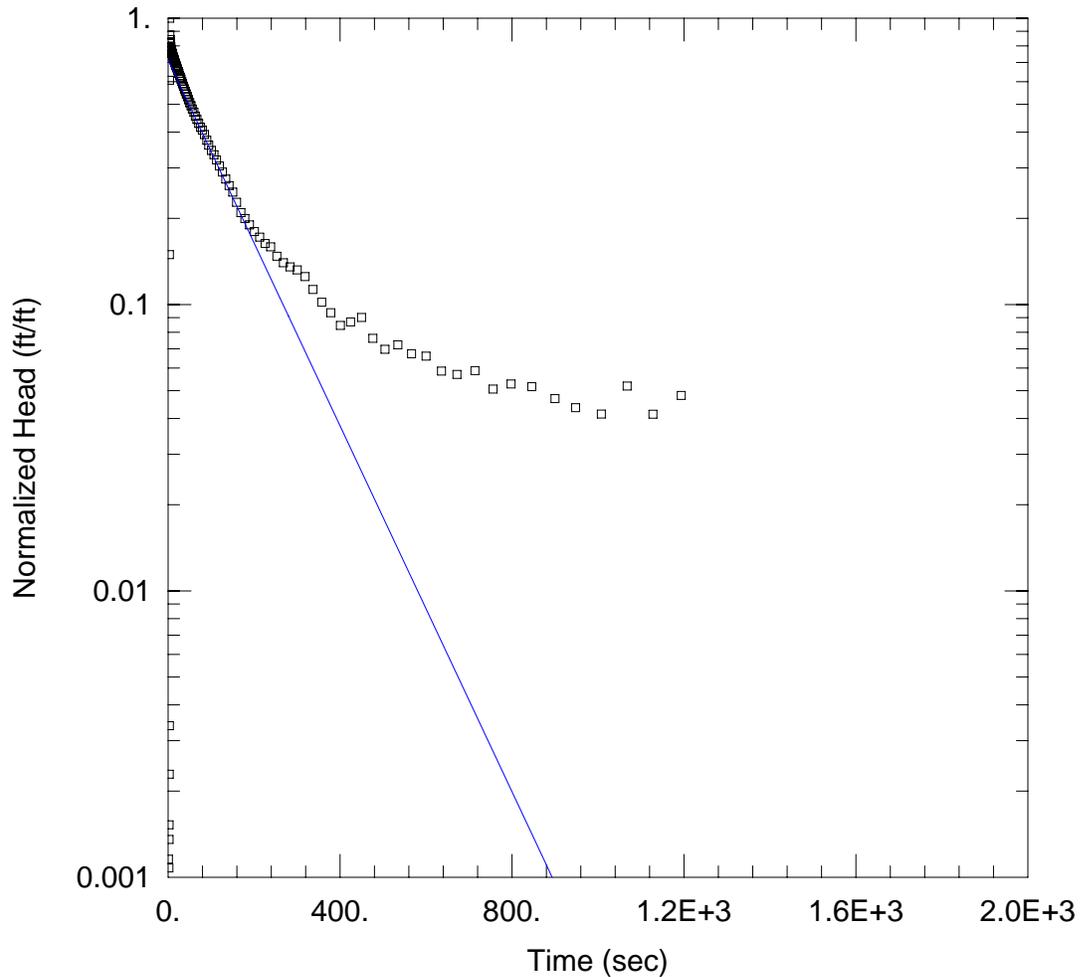
Slug Test
 Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 3.775

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.000279	cm/sec
y0	1.507	ft

$T = K \cdot b = 0.09609 \text{ cm}^2/\text{sec}$



MW-03 FALLING HEAD TEST

Data Set: K:\...\MW-3(Kimball)Rise.aqt
 Date: 06/26/12

Time: 12:53:28

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 11.3 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-01)

Initial Displacement: -1.812 ft
 Total Well Penetration Depth: 11.3 ft
 Casing Radius: 0.083 ft

Static Water Column Height: 11.3 ft
 Screen Length: 10. ft
 Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.0002914 cm/sec

Solution Method: Bouwer-Rice
 y0 = -1.294 ft

Data Set: K:\EPA\EPA R5 START3\Site Files\Brownfields - Bloomingdale Trail\Kimbal Field Documents\Slug Test\M
 Title: MW-03 Falling Head Test
 Date: 06/26/12
 Time: 12:53:41

PROJECT INFORMATION

Company: WESTON
 Client: U.S. EPA
 Location: Kimball Field
 Test Well: MW-3

AQUIFER DATA

Saturated Thickness: 11.3 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: MW-01

X Location: 0. ft
 Y Location: 0. ft

Initial Displacement: -1.812 ft
 Static Water Column Height: 11.3 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.083 ft
 Well Skin Radius: 0.33 ft
 Screen Length: 10. ft
 Total Well Penetration Depth: 11.3 ft

No. of Observations: 116

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.25	-0.001373	45.	-0.9636
0.5	-0.001742	47.64	-0.941
0.75	0.000141	50.46	-0.9183
1.	-0.002096	53.46	-0.8964
1.25	-0.001487	56.64	-0.8725
1.5	-0.000873	60.	-0.8512
1.75	-0.000773	63.6	-0.825
2.	-0.001953	67.2	-0.8023
2.25	-0.002457	71.4	-0.7777
2.5	-0.002762	75.6	-0.7531
2.75	-0.00415	79.8	-0.7361
3.	-0.006125	84.6	-0.7108
3.25	-0.2706	90.	-0.6792
3.5	-1.099	94.8	-0.6528
3.75	-1.482	100.8	-0.6254
3.995	-1.812	106.8	-0.6045
4.25	-1.581	112.8	-0.5794
4.5	-1.493	119.4	-0.5516
4.75	-1.493	126.6	-0.5257
5.	-1.526	134.4	-0.4968
5.25	-1.494	142.2	-0.4718
5.5	-1.434	150.6	-0.4472
5.75	-1.418	159.6	-0.4122
6.	-1.444	169.4	-0.3791
6.36	-1.446	178.8	-0.362
6.72	-1.405	189.6	-0.3438
7.14	-1.412	201.	-0.3257
7.56	-1.407	213.	-0.3114
7.98	-1.384	225.6	-0.2959
8.46	-1.389	238.8	-0.2882
9.	-1.371	253.2	-0.2674

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
9.48	-1.367	268.3	-0.2536
10.08	-1.356	283.8	-0.2452
10.68	-1.346	300.6	-0.2392
11.28	-1.336	318.6	-0.2269
11.94	-1.328	337.2	-0.2044
12.68	-1.316	357.6	-0.1846
13.44	-1.305	378.6	-0.1697
14.22	-1.295	400.8	-0.1532
15.06	-1.282	424.8	-0.1574
15.96	-1.271	450.	-0.1633
16.92	-1.259	476.4	-0.1382
18.32	-1.241	504.6	-0.1265
18.96	-1.233	534.6	-0.131
20.1	-1.221	566.4	-0.1219
21.3	-1.206	600.	-0.1197
22.56	-1.191	636.	-0.1061
23.88	-1.178	672.	-0.1032
25.32	-1.162	714.	-0.1065
26.82	-1.144	756.	-0.09187
28.38	-1.128	798.	-0.09568
30.06	-1.11	846.	-0.09355
31.86	-1.09	900.	-0.08507
33.72	-1.069	948.	-0.07908
35.76	-1.048	1008.	-0.07507
37.86	-1.026	1068.	-0.0941
40.08	-1.006	1128.	-0.07502
42.48	-0.9851	1194.	-0.08729

SOLUTION

Slug Test

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

ln(Re/rw): 3.775

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.0002914	cm/sec
y0	-1.294	ft

$$T = K*b = 0.1004 \text{ cm}^2/\text{sec}$$